

Michael J. Chapple

Teaching Professor
Department of Information Technology, Analytics, and Operations

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Education

- June 2009 **Ph.D. in Computer Science and Engineering**
University of Notre Dame
Dissertation Topic: “Efficient Security Management of Controlled Networks in a Resource-Constrained Environment”
- December 2004 **Master of Business Administration**
Raymond J. Habert College of Business, Auburn University
- December 2000 **Master of Science in Computer Science**
Certificate in Secure and Dependable Computing
University of Idaho
Thesis Topic: “Network Intrusion Detection Utilizing Classification Trees”
- May 1997 **Bachelor of Science in Computer Science**
University of Notre Dame

Academic Experience

- July 2020 – Present **Teaching Professor**
Academic Director, MS in Business Analytics
Department of Information Technology, Analytics, and Operations
Mendoza College of Business, University of Notre Dame
- July 2017 – June 2020 **Associate Teaching Professor**
Academic Director, MS in Business Analytics
Department of Information Technology, Analytics, and Operations
Mendoza College of Business, University of Notre Dame
- November 2016 – June 2017 **Concurrent Associate Teaching Professor**
Department of Information Technology, Analytics, and Operations
Mendoza College of Business, University of Notre Dame
- January 2013 – May 2014 **Concurrent Assistant Professor**
Department of Management
Mendoza College of Business, University of Notre Dame
- July 2009 – May 2017 **Concurrent Assistant Professor**
Department of Computing and Digital Technologies
College of Arts and Letters, University of Notre Dame

January 2006 – **Concurrent Instructor**
 June 2009 Department of Computer Applications
 College of Arts and Letters, University of Notre Dame

Teaching Experience

Cloud Computing (Undergraduate)

Cloud computing is a transformative technology force affecting firms of all sizes and across all industries. The cloud model offers flexible, scalable, and cost-efficient access to computing resources on a just-in-time basis. In this course, you will explore the applications of cloud computing to common business problems. You will learn to create full-stack cloud solutions, including the use of Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) technologies.

Summer 2021 (Dublin, Ireland)	Upcoming	Evaluation pending
Fall 2020	Upcoming	Evaluation pending
Fall 2019	32 students	5.00/5.00 composite rating

Cloud Analytics (Graduate)

Cloud computing is a transformative force in the development of technology solutions that meet business analytics needs. Firms no longer need to make significant capital investments in large-scale data centers that sit idle for extended periods of time. The cloud model offers flexible, scalable, and cost-efficient access to computing resources on a just-in-time basis. In this course, we will explore the applications of cloud computing to common business analytics problems. We will explore full-stack cloud solutions, including the use of Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) technologies.

Fall 2020 (MSBA-R)	Upcoming	Evaluation pending
Fall 2021 (MSBA-C)	Upcoming	Evaluation pending

Cybersecurity: An Executive Perspective (Executive MBA)

Equifax, Yahoo, Blue Cross/Blue Shield, and the federal government have all fallen victim to major data breaches in recent years that caused them significant financial and reputational damage. Cybersecurity issues now merit significant discussion at the executive and board level. In this class, we will explore major issues in cybersecurity at an executive level including a discussion of the modern threat landscape, appropriate levels of cybersecurity control, and responding to cybersecurity incidents. We'll discuss these issues in the context of real-world cases.

Winter 2020	Upcoming	Evaluation pending
Summer 2019	7 students	Not evaluated
Summer 2018	10 students	5.00/5.00 composite rating

Data Management (Graduate)

Graduate-level course taught in the Master of Science in Business Analytics (MSBA) and Master of Business Administration (MBA) programs. Introduces students to the concepts of data management, the use of SQL with enterprise databases and data wrangling in the R programming language.

Spring 2020 (MSBA-C)	36 students	5.00/5.00 composite rating
Spring 2019 (MSBA-C)	35 students	5.00/5.00 composite rating
Spring 2018 (MSBA-C)	32 students	5.00/5.00 composite rating
Spring 2018 (MBA)	55 students	5.00/5.00 composite rating
Spring 2017 (MSBA-C)	24 students	4.90/5.00 composite rating

Databases (Graduate)

Graduate-level course developed for the online Master of Science in Data Science (MSDS) program. Provides students with an introduction to the use of relational and non-relational databases in a data science context. Includes the use of SQL, R, Python, NoSQL, Neo4J, Hadoop, Hive and MongoDB. Served as faculty developer for this course, creating courseware and instructional design.

Data Management (Undergraduate)

Undergraduate course taught in the Business Analytics program. Introduces students to the concepts of data management, the use of SQL with enterprise databases and data wrangling in the R programming language.

Spring 2019	20 students	4.90/5.00 composite rating
Fall 2018	31 students	5.00/5.00 composite rating
Fall 2017 (Section 1)	19 students	5.00/5.00 composite rating
Fall 2017 (Section 2)	22 students	5.00/5.00 composite rating
Fall 2017 (Section 3)	18 students	5.00/5.00 composite rating

Data Management (Undergraduate Online)

Developed and delivered online version of undergraduate data management course. Introduces students to the concepts of data management, the use of SQL with enterprise databases and data wrangling in the R programming language.

Summer 2020 (Summer Online)	27 students	Evaluation pending
Spring 2020 (Silicon Valley)	5 students	No rating due to class size
Summer 2019 (Summer Online)	16 students	5.00/5.00 composite rating

Advanced R for Analytics (Graduate)

This course sharpens the R skills that students developed during the Data Management course by exposing them to advanced and emerging topics in R coding, with a specific focus on analytics applications. Topics covered include advanced data wrangling, R Markdown, API use, web scraping, database access, and other topics essential to coding for analytics applications.

Spring 2020	36 students	Evaluation pending
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Analytics Capstone (Graduate)

Comprehensive capstone project in the Master of Science in Business Analytics (MSBA) program. Provides students with the opportunity to partner with firms on real-world analytics projects.

Fall 2019	36 students	5.00/5.00 composite rating
Fall 2018	32 students	4.90/5.00 composite rating
Fall 2017	22 students	4.60/5.00 composite rating
Fall 2016	24 students	4.50/5.00 composite rating

Integrated Analytics Practices (Graduate)

Using an integrative case analysis exercise, students will explore the integrated use of analytics methods and approaches. The exercise will require students to develop an understanding of the problem, analyze a sample of relevant data, and formulate a statement of work and project plan suitable for presentation to a business executive. The course emphasizes research design and the role of communication skills in implementing analytics in business settings.

Summer 2019	40 students	4.30/5.00 composite rating
Summer 2018	32 students	4.70/5.00 composite rating

Information Security (Undergraduate)

Undergraduate course taught in the Computing & Digital Technologies program. Provides students with a firm understanding of cybersecurity concepts and introduces the technical, physical, and administrative controls used to achieve confidentiality, integrity, and availability.

Fall 2016	19 students	4.70/5.00 composite rating
Fall 2015	8 students	4.80/5.00 composite rating
Fall 2014	6 students	5.00/5.00 composite rating
Fall 2013	21 students	4.70/5.00 composite rating
Fall 2012	15 students	5.00/5.00 composite rating
Fall 2011	27 students	4.60/5.00 composite rating
Fall 2010	23 students	4.70/5.00 composite rating

Course previously taught annually from 2006-2009 using an earlier rating system.

Networking and Security (Undergraduate)

Undergraduate course taught in the Information Technology Management program. Provides students with a firm understanding of cybersecurity concepts and introduces the technical, physical, and administrative controls used to achieve confidentiality, integrity, and availability. Includes coverage of basic networking concepts.

Spring 2014	20 students	5.00/5.00 composite rating
Spring 2013	25 students	4.10/5.00 composite rating

Professional Experience

- 2011 – 2017 **Senior Director for IT Service Delivery**
Office of Information Technologies
University of Notre Dame
Notre Dame, IN
- 2009 – 2011 **Senior Advisor to the Executive Vice President**
University of Notre Dame
Notre Dame, IN
- 2005 – 2009 **Information Security Program Manager**
Office of Information Technologies
University of Notre Dame
Notre Dame, IN
- 2001 – 2005 **Executive Vice President and Chief Information Officer**
Brand Institute, Inc.
Miami, FL
- 1997 – 2001 **Senior Computer Scientist & Intelligence Officer**
Information Security Research Division
National Security Agency / United States Air Force
Fort Meade, MD

Books

1. “Cyberwarfare, Second Edition, M.Chapple and D. Seidl, Jones & Bartlett, January 2021 (work in progress).
2. “Security+ SY0-601 Study Guide, Eighth Edition”, M. Chapple and D. Seidl, John Wiley and Sons, September 2020 (work in progress).
3. “Cybersecurity Analyst+ Practice Tests, Second Edition”, M. Chapple and D. Seidl, John Wiley and Sons, August 2020 (work in progress).
4. “Cybersecurity Analyst+ Study Guide, Second Edition”, M. Chapple and D. Seidl, John Wiley and Sons, June 2020 (work in progress).
5. “Practical Machine Learning in R”, F. Nwanganga and M. Chapple, John Wiley and Sons, December 2019 (work in progress).
6. “Access Control, Authentication, and Public Key Infrastructure, Third Edition”, M.Chapple, Jones and Bartlett, November 2019 (work in progress).
7. “Systems Security Certified Professional (SSCP) Official Practice Tests, First Edition”, M. Chapple and D. Seidl, John Wiley and Sons, January 2019.
8. “PenTest+ Study Guide”, M. Chapple and D. Seidl, John Wiley and Sons, November 2018.
9. “Certified Information Systems Security Professional (CISSP) Official Practice Tests, Second Edition”, M. Chapple and D. Seidl, John Wiley and Sons, June 2018.
10. “Certified Information Systems Security Professional (CISSP) Official Study Guide, Eighth Edition”, M. Chapple, J. Stewart, and D. Gibson, John Wiley and Sons, April 2018.
11. “Cybersecurity Analyst+ Practice Tests”, M. Chapple and D. Seidl, John Wiley and Sons, February 2018.
12. “Cybersecurity Analyst+ Study Guide”, M. Chapple and D. Seidl, John Wiley and Sons, April 2017.
13. “Certified Information Systems Security Professional (CISSP) Official Practice Tests”, M. Chapple and D. Seidl, John Wiley and Sons, July 2016.
14. “Certified Information Systems Security Professional (CISSP) Official Study Guide, Seventh Edition”, J. Stewart, M. Chapple, and D. Gibson, John Wiley and Sons, September 2015.
15. “Certified Information Systems Security Professional (CISSP) Study Guide, Sixth Edition”, J. Stewart, M. Chapple, and D. Gibson, John Wiley and Sons, July 2012.
16. “Cyberwarfare: Information Operations in a Connected World”, M. Chapple and D. Seidl, Jones and Bartlett, September 2014.

17. "Access Control, Authentication, and Public Key Infrastructure (PKI)", M. Chapple, B. Ballad, and E. Banks, Jones & Bartlett, July 2013.
18. "Security+ Training Course", M. Chapple, Virtual Training Company, April 2011
19. "Certified Information Systems Security Professional Study Guide, Fifth Edition", E. Tittel, J. Stewart and M. Chapple, John Wiley and Sons, 2010.
20. "SQL Server 2008 for Dummies", M. Chapple, John Wiley and Sons, 2008
21. "Certified Information Systems Security Professional Study Guide, Fourth Edition", E. Tittel, J. Stewart and M. Chapple, John Wiley and Sons, 2008.
22. "Symantec Certified Security Professional Study Guide", K. Hausman and M. Chapple, Addison Wesley, 2005.
23. "Information Security Illuminated", M. Solomon and M. Chapple, Jones and Bartlett, 2005.
24. "Certified Information Systems Security Professional Study Guide, Third Edition", E. Tittel, J. Stewart and M. Chapple, John Wiley and Sons, 2005.
25. "Certified Information Systems Security Professional Study Guide, Second Edition", E. Tittel, J. Stewart and M. Chapple, John Wiley and Sons, 2004.
26. "The GSEC Prep Guide: Mastering SANS GIAC Security Essentials", M. Chapple, John Wiley and Sons, 2003.
27. "Certified Information Systems Security Professional Study Guide, First Edition", E. Tittel, J. Stewart and M. Chapple, John Wiley and Sons, 2003.
28. "TICSA Training Guide", M. Chapple and D. Littlejohn Shinder, Que/Sams, 2002.
29. "MCSE CoursePrep Exam Guide: ISA Server 2000", M. Chapple, Course Technology, 2002
30. "Designing Windows 2000 Directory Services Lab Manual", M. Chapple and B. Parrish, Thompson, 2002.

Refereed Publications

1. M. Chapple, A. Striegel, and C. Crowell, "Firewall Rulebase Management: Rules and Techniques", *ICT Ethics and Security in the 21st Century: New Developments and Applications*, January 2011.
2. M. Chapple, J. D'Arcy, and A. Striegel, "An Analysis of Firewall Rulebase (Mis)management Practices", *Journal of the Information Systems Security Association*, February 2009.
3. M. Chapple and C. Crowell, "U.S. Information Security Law and Regulation", *Encyclopedia of Information Ethics and Security*, Information Science Reference, January 2008.

4. M. Chapple, N. Chawla and A. Striegel “Authentication Anomaly Detection: A Case Study on a Virtual Private Network,” *ACM Workshop on Mining Network Data (MINENET 2007)*, San Diego, CA, June 2007.
5. M. Chapple and C. Crowell, “Federal Information Security Law”, *Encyclopedia of Information Ethics and Security*, Information Science Reference, May 2007.
6. M. Chapple, T. Wright and R. Winding “Flow anomaly detection in firewalled networks,” *IEEE Workshop on Enterprise and Network Security*, Baltimore, MD, August 2006.
7. R. Winding, T. Wright and M. Chapple “System anomaly detection: mining firewall logs,” *IEEE Workshop on Enterprise and Network Security*, Baltimore, MD, August 2006.

University and College Service

- 2020 – Search Committee Member, Notre Dame Technology Ethics Lab Director
- 2019 – Search Committee Member, ITAO Teaching Faculty
- 2019 – Chair, ITAO Advisory Board
- 2018 – Member, University Case Review Panel
- 2018 – Member, University Administrative Review Board
- 2018 – Member, University Committee on Academic Technology
- 2018 – Faculty Advisor, Notre Dame MBA Toastmasters
- 2018 – Faculty Advisor, Notre Dame Cybercrime Internship Program
- 2017 – Member, MS in Business Analytics Curriculum Committee
- 2017 – Member, IT, Analytics, and Operations Department Curriculum Committee
- 2016 – 2019 Member, University Sustainability Working Group
- 2016 – 2017 Member, Provost’s Ad Hoc Committee on Learning and Teaching
- 2011 – 2017 Chair, University Information Governance Committee
- 2011 – 2017 Chair, Information Technology Guidance Committee
- 2009 – 2017 Participant, University Emergency Operations Center
- 2009 – 2011 Member, Institutional Risk and Compliance Committee
- 2010 – 2010 Member, Chief Information Officer Search Committee
- 2009 – 2011 Member, University Licensing Committee
- 2010 – 2011 Member, University Utilities Long Range Planning Task Force

Dissertation Committee Service

- 2019 Nwanganga, F., "Optimizing Workload Resource Allocation in the Cloud: A Data-Driven Approach," Awarded Ph.D. May 2019.

Community Service

- 2015 – Board Member, North Country Trail Association
- 2015 – Board Member, South Bend Parks Foundation
- 2007 – Exam Item Writer, Certified Information Systems Auditor (CISA) Certification
- 2007 – Reviewer, Computers & Security
- 2016 – 2018 Faculty Member, EDUCAUSE Management Institute
- 2015 – 2016 Chair, EDUCAUSE Recognition Committee
- 2014 – 2016 Chair, Common Solutions Group Cloud Working Group

- 2014 – 2015 Member, EDUCAUSE Recognition Committee
- 2013 – 2015 Member, EDUCAUSE Governance, Risk, and Compliance Task Force
- 2013 – 2015 Board Chair, American Red Cross of St. Joseph County
- 2011 – 2014 Board Member, Home Management Resources
- 2009 – 2013 Board Member, American Red Cross of St. Joseph County
- 2009 Member, South Bend Government Enhancement Task Force
- 2008 – 2009 Technical Representative, Payment Card Industry Security Standards Council
- 2008 Reviewer, Encyclopedia of Information Science and Technology, Second Edition
- 2008 Reviewer, Encyclopedia of Information Ethics and Security
- 2007 – 2009 Participant, EDUCAUSE Security Task Force Awareness & Training Working Group
- 2007 Reviewer, 20th Annual Florida Artificial Intelligence Research Society Conference
- 2007 Reviewer, IEEE International Conference on Systems, Man and Cybernetics (SMC)
- 2005 – 2014 Technical Editor, Information Security Magazine
- 2005 – 2009 Member, Research and Education Network Information Sharing and Analysis Center
- 2005 – 2008 Member, Center for Internet Security (CIS) Benchmark Working Group
- 2004 – 2006 Member, Generally Accepted Information Security Principles (GAISP) Working Group
- 2004 Technical Reviewer, “Cisco Routing and Switching”, SAMS Publishing.
- 2004 Technical Reviewer, “Cisco CCNA”, SAMS Publishing.

Professional Certifications

- 2019 Certified Cloud Security Professional (CCSP)
- 2018 Penetration Tester+ Certification (PenTest+)
- 2018 Certified Information Security Manager (CISM)
- 2017 Cybersecurity Analyst+ Certification (CySA+)
- 2015 Security+ Certification
- 2010 Lean Six Sigma Green Belt
- 2008 Project Management Professional (PMP)
- 2006 Certified Information Systems Auditor (CISA)
- 2004 GIAC Certified Firewall Analyst (GCFW)
- 2002 Certified Information Systems Security Professional (CISSP)
- 2001 Microsoft Certified Database Administrator (MCDBA)
- 2001 Check Point Certified Security Administrator
- 2000 Cisco Certified Network Associate (CCNA)
- 1999 Microsoft Certified Systems Engineer (MCSE)

Distinctions, Honors, and Awards

- 2017 MSBA Outstanding Professor Award, Mendoza College of Business, University of Notre Dame
- 2015 Fellow, Leading Change Institute
- 2014 Forty Under Forty Award, South Bend Chamber of Commerce
- 2008 Notre Dame Presidential Achievement Award
- 2008 Elected Member, Upsilon Pi Epsilon
- 2007 Association for Computing Machinery SIGUCCS Award of Excellence
- 2001 Senior Member, Computer Science Technical Track, National Security Agency
- 2000 Company Grade Officer of the Year, 694th Ops Support Squadron, U.S. Air Force
- 1998 Distinguished Graduate, Air Force Intelligence Officer Training
- 1997 Outstanding Computer Science Senior Award, University of Notre Dame
- 1997 Elected Member, Tau Beta Pi Honor Society

1997	Distinguished Graduate, Air Force ROTC
1994	Air Force ROTC 4-Year Undergraduate Scholarship
1993	Notre Dame Scholar, University of Notre Dame
1993	Grumman Aerospace Computer Science Scholarship

White Papers

1. M. Chapple, "IDC PlanScape: Privacy Engineering", IDC, May 2020.
2. M. Chapple, "Lessons Learned from Six Major Data Breaches", IDC, October 2019.
3. M. Chapple, "IDC PlanScape: Building an Analytics Center of Excellence", IDC, June 2019.
4. M. Chapple, "Five Ways to Modernize Digital Certificate Management", IDC, April 2019.
5. M. Chapple, "Designing a Risk Management Strategy for SaaS Solutions", IDC, March 2019.
6. M. Chapple, "The CIO's Playbook: Preparing for Data Breach Notifications", IDC, February 2019.
7. M. Chapple, "IDC PlanScape: Threat Intelligence Solutions", IDC, February 2019.
8. M. Chapple, "IDC's Worldwide Digital Transformation Use Case Taxonomy, 2019: Higher Education", IDC, January 2019.
9. M. Chapple, "Security Automation: Eight Things You Can Do Now for Security at Scale", IDC, December 2018.
10. M. Chapple, "IDC PlanScape: Launching a Bug Bounty Program", IDC, December 2018.
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11. M. Chapple, "Security Certifications: Seven Things CIOs Need to Know", IDC, July 2018.
12. M. Chapple, "Cybersecurity Threats: Eight Things CIOs Need to Know", IDC, July 2018.
13. M. Chapple, "Cybersecurity Insurance: Five Things CIOs and Businesses Need to Know", IDC, May 2018.
14. M. Chapple, "Encryption: Six Principles That CIOs Need to Know", IDC, March 2018.
15. M. Chapple, "IDC PlanScape: Threat Hunting", IDC, December 2017.
 - a.
16. M. Chapple, "Data Science in Cybersecurity: Five Questions to Ask Vendors", IDC, November 2017.
17. M. Chapple, "IDC PlanScape: Creating a Cybersecurity Professional Development Program", IDC, November 2017.
18. M. Chapple, "IDC PlanScape: Building a Security Operations Center", IDC, October 2017.
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19. M. Chapple, "IDC PlanScope: Building Compliant Cloud Environments", IDC, October 2017.
20. M. Chapple, "IDC PlanScope: Deploying Multifactor Authentication," IDC, May 2017.
21. M. Chapple, et. al, "Preparing the IT Organization for the Cloud: Cloud on the Horizon," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, November 2016.
22. M. Chapple, P. Allison, et al, "New Approaches to Higher Education IT Strategic Planning," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, August 2016.
23. M. Chapple, D. Carraway, et al, "Cloud Awareness and User Support," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, August 2016.
24. M. Chapple, et. al, "Preparing the IT Organization for the Cloud: Operationalizing the Cloud," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, May 2016.
25. M. Chapple, et. al, "Preparing the IT Organization for the Cloud: Building a Migration Plan," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, January 2016.
26. M. Chapple, et. al, "Transforming the IT Organization," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, August 2015.
27. M. Chapple, et. al, "Developing Cloud-Aware IT Governance," EDUCAUSE Center for Analysis and Research (ECAR) working group paper, June 2015.
28. M. Chapple, et. al, "Cloud Strategy for Higher Education: Building a Common Solution," Common Solutions Group (CSG) working group publication, November 2014.

Video Training

1. "Certified Cloud Security Professional (CCSP)," (7-course series), LinkedIn Learning, July 2019.
2. "Tor and the Dark Web," LinkedIn Learning, June 2019.
3. "Protecting Social Security Numbers," LinkedIn Learning, April 2019.
4. "Security Testing: Vulnerability Scanning with Nessus," LinkedIn Learning, March 2019.
5. "Certified Information Security Manager (CISM)," (5-course series), Lynda.com/LinkedIn Learning, November 2018.
6. "Inside the Breach", (monthly series), Lynda.com/LinkedIn Learning, September 2018.
7. "Security Testing: Nmap Security Scanning", Lynda.com/LinkedIn Learning, September 2018.
8. "Cleaning Bad Data in R", Lynda.com/LinkedIn Learning, August 2018.

9. "Data Visualization in R with ggplot2," Lynda.com/LinkedIn Learning, April 2018.
10. "Cybersecurity Analyst+ (CySA+)," (7-course series), Lynda.com/LinkedIn Learning, April 2018.
11. "System Security Certified Professional (SSCP)," (8-course series), Lynda.com/LinkedIn Learning, December 2017.
12. "Data Wrangling in R," Lynda.com/LinkedIn Learning, August 2017.
13. "Certified Information Systems Security Professional (CISSP)," (9-course series), Lynda.com/LinkedIn Learning, 2016 (revised 2018).
14. "Insights from a Cybersecurity Professional," Lynda.com/LinkedIn Learning, 2016.
15. "Security+ Training," (7-course series), Lynda.com/LinkedIn Learning, 2015 (revised 2018).

Other Publications

1. "XDR: The Next Evolution in Endpoint Detection and Response? ", BizTech Magazine, October 2020.
2. "4 Tips For Protecting Intellectual Property In Academia ", EdTech Magazine, October 2020.
3. "The Fundamentals of Zero-Trust Security for Schools ", EdTech Magazine, October 2020.
4. "5 Ways to Update An Agency?s Incident Response Plan ", FedTech Magazine, August 2020.
5. "How Agencies Can Secure Data from Shared Documents After Users Leave ", FedTech Magazine, August 2020.
6. "The VPN Is Obsolete. Here's What to Do Instead. ", BizTech Magazine, July 2020.
7. "Secure Your VPN, No Matter What ", EdTech Magazine, June 2020.
8. "How to Stop Phishing Attacks ", BizTech Magazine, May 2020.
9. "Tech Tips for Colleges Using Zoom for Remote Learning ", EdTech Magazine, April 2020.
10. "3 Tips for Protecting a VPN in the Face of Major Vulnerabilities ", FedTech Magazine, March 2020.
11. "Best Practices for Ensuring Data Security in the Cloud ", EdTech Magazine, February 2020.
12. "No Safety in Numbers", Mendoza Business Magazine, December 2019.
13. "The 5 Cybersecurity Must-Haves for Every Business", BizTech Magazine, December 2019.
14. "Adapt These Settings for a Faster Windows 10", EdTech Magazine, November 2019.

15. "Plan Well for a Hybrid Cloud Environment and See Efficiencies", FedTech Magazine, November 2019.
16. "Don't Be Victimized by a Supply Chain Attack", BizTech Magazine, October 2019.
17. "Security, Privacy and Confidentiality: What's the Difference?", EdTech Magazine, October 2019.
18. "Understanding FERPA: How K-12 Schools Can Update Their Data Privacy Approach", EdTech Magazine, September 2019.
19. "Is certification a reliable means of learning new IT skills and concepts?", Certification Magazine, September 2019.
20. "5 Questions to Ask About Buying AI-Enabled Security Software", BizTech Magazine, August 2019.
21. "Six Niche Security Certifications", Certification Magazine, July 2019.
22. "SIEM vs SOAR: What's the Difference, and Do Businesses Need Both?", BizTech Magazine, July 2019.
23. "Fact or Fallacy: Stay Up to Date on Best Practices for Password Security", EdTech Magazine, June 2019.
24. "Taking Social Security Numbers Public Could Fix Our Data Breach Crisis", CNN, June 2019.
25. "Big Tech Can't Be Trusted: It's Time For Privacy Regulation", CNN, April 2019.
26. "Evaluating Intrusion Prevention Systems in Higher Education", EdTech Magazine, March 2019.
27. "Five Tips for Keeping Federal Data Safe", FedTech Magazine, March 2019.
28. "A rebooted CCSP certification exam is coming", Certification Magazine, February 2019.
29. "5 Tips for Updating a Cybersecurity Incident Response Plan ", BizTech Magazine, January 2019.
30. "Cloud Access Security Brokers Give IT Staff Visibility and Oversight ", EdTech Magazine, January 2019.
31. "5 Steps to Integrate a Business' Security Solutions", BizTech Magazine, October 2018.
32. "An old exam format is making an IT certification comeback", Certification Magazine, May 2018.
33. "Why You Should Conduct Risk Assessments Before Buying New Cybersecurity Products", BizTech Magazine, May 2018.
34. "Iran doesn't have nukes yet, but it has another powerful weapon it can use against the US right now", CNBC, May 2018.

35. "How to Really Protect Your Digital Privacy: Move to Europe", Fortune, April 2018.
36. "Segment Your Campus Network for Greater Security", EdTech Magazine, April 2018.
37. "Feds Can Optimize Disaster Recovery Solutions in the Cloud", FedTech Magazine, March 2018.
38. "Bug Bounty Programs Can Help Local Governments Stamp Out Security Threats", StateTech Magazine, March 2018.
39. "It's Time to Question Longstanding Password Security Best Practices ", FedTech Magazine, February 2018.
40. "4 Ways Data Loss Prevention Tools Fit Right in to Layered Security Strategies", EdTech Magazine, January 2018.
41. "Six Big Cybersecurity Certification Changes for 2018", Go Certify, January 2018.
42. "2017 in Review: The top cybersecurity news stories", Certification Magazine, December 2017.
43. "The right cert can provide a strong foundation for your cybersecurity career", Certification Magazine, November 2017.
44. "Russia meddling mess will cost tech giants big bucks to fix", CNBC Op-Ed, November 2017.
45. "3 Tips for a Smooth Data Loss Prevention Rollout ", FedTech Magazine, October 2017.
46. "DHS's CDM Program Moves to the Next Phase: Protection", FedTech Magazine, October 2017.
47. "Find Your Footing in Cloud Security with CCSK", Go Certify, June 2017
48. "Solving the cybersecurity staffing shortage", Certification Magazine, June 2017
49. "Keep Your Campus Both Smart and Secure as IoT Expands ", EdTech Magazine, April 2017
50. "4 Ways to Use Context-Aware Security for Maximum Advantage", EdTech Magazine, March 2017
51. "Half-a-billion reasons not to use free e-mail", Certification Magazine, February 2017
52. "3 Tips for Feds Looking to Ditch Old Datasets", FedTech Magazine, February 2017
53. "Managed security services market: What you need to know now", SearchSecurity, December 2016
54. "Still got it: CISSP certification a must for aspiring security professionals", Certification Magazine, December 2016
55. "Managed security providers: What's new?", SearchSecurity, December 2016

56. "Connect to the red-hot hiring realm of network security with these top certs", Certification Magazine, November 2016
57. "The science (and certification) of writing secure code", Certification Magazine, September 2016
58. "Why HIPAA controls don't do enough for privacy and security", SearchSecurity, September 2016
59. "Russian hackers only latest attackers in ongoing cyberbattle", Certification Magazine, September 2016
60. "As Businesses Enable Cloud and Mobility, They Cannot Forget About Security", BizTech Magazine, September 2016
61. "A Step-by-Step Guide to Closing the Cybersecurity Generation Gap", BizTech Magazine, August 2016
62. "Your firm is not safe from APTs, and what to do about that", Certification Magazine, August 2016
63. "The Basics of Smart Contracts with Cloud Vendors", EdTech Magazine, August 2016
64. "Two cybersecurity questions most organizations aren't asking", Certification Magazine, August 2016
65. "How the Government Will Focus on Multifactor Authentication", FedTech Magazine, July 2016
66. "Hacking Small Companies Is Big Business", BizTech Magazine, July 2016
67. "Spy Game: The Emerging Cybersecurity Realm of Threat Intelligence", Go Certify, July 2016
68. "10 Things Your Business Manager Wishes You Knew," EDUCAUSE Review, June 2016.
69. "Six New Cybersecurity Certs that Address Hotly Demanded Skills", Go Certify, June 2016
70. "Security D-I-Y: Protect Your Organization from E-Mail Spoofing", Go Certify, June 2016
71. "IT Could Happen to You: Security Breach Bites NBA Team", Go Certify, June 2016
72. "So You Want to Be a Certified Information Security Manager (CISM)", Go Certify, May 2016
73. "A Vital Cert for IT Pros Charged with Securing the Internet of Things", Go Certify, April 2016
74. "How Agencies Can Strengthen Cybersecurity with Vulnerability Management", FedTech Magazine, April 2016
75. "'Hack the Pentagon' Highlights Rise in Popularity of Bug Bounty Programs", Go Certify, April 2016
76. "CCSP Certification a Must for Security Pros Pivoting to the Cloud", Go Certify, March 2016
77. "Big chair cybersecurity: Make the leap to IT security management", Certification Magazine, March 2016

78. "The devil is not in these details: Why encryption isn't evil", Certification Magazine, March 2016
79. "End of Life a Critical Issue for Cybersecurity Professionals", Go Certify, February 2016
80. "SQL Server 2016 Offers Federal Agencies Multiple Cloud Options", FedTech Magazine, February 2016
81. "For Federal Agencies, Preserving Data Integrity Is a Critical Task ", FedTech Magazine, February 2016
82. "Real cybersecurity is not as easy as Hollywood makes it look", Certification Magazine, January 2016
83. "Cybersecurity Information Sharing Act's impact on security", SearchSecurity, December 2015
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90. "Vulnerability Assessments Reveal Security Weaknesses", BizTech Magazine, October 2015
91. "How to manage BYOD security policies and stay compliant", SearchSecurity, October 2015
92. "Why aren't merchants adopting EMV technology yet?", SearchSecurity, October 2015
93. "What does the Consumer Privacy Bill of Rights mean for enterprises?", SearchSecurity, October 2015
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95. "Top certifications to you help you secure Linux environments", Certification Magazine, October 2015
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97. "Who does what? Uncover the key to cloud security compliance", SearchCloudSecurity, October 2015
98. "The ups and downs of cloud compliance", SearchCloudSecurity, October 2015
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107. "Manage compliance controls with Adobe Common Controls Framework", SearchSecurity, June 2015
108. "Shared responsibility determines cloud computing security", Certification Magazine, June 2015
109. "How health information may affect the security of Internet of Things", IoT Agenda, May 2015
110. "Prevention and protection vital in countering the pernicious threat of ransomware", Certification Magazine, May 2015
111. "The optional PCI DSS 3.0 requirements are about to become mandatory", SearchSecurity, April 2015
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149. "Changes to ISO 27001: What's new in the 2013 ISO 27001 update?", SearchSecurity, March 2014
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152. "How to build an effective corporate privacy compliance program", SearchSecurity, February 2014
153. "How to rank enterprise network security vulnerabilities", SearchSecurity, January 2014
154. "Speaking the Same Language: Building a Data Governance Program for Institutional Impact," EDUCAUSE Review, December 2013.
155. "Surveying the Cloud Security Landscape", BizTech Magazine, December 2013
156. "PCI DSS review: Assessing the PCI standard nine years later", SearchSecurity, October 2013
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164. "The HIPAA omnibus rule: How the changes affect IT security pros", SearchSecurity, April 2013

165. "SaaS, cloud computing vulnerability management: Choosing a provider", SearchCloudSecurity, March 2013
166. "Understanding PCI mobile payment processing security guidelines", SearchSecurity, March 2013
167. "How Security Containers Protect Mobile Data", BizTech Magazine, February 2013
168. "The Three Elements of Defense Against Denial-of-Service Attacks", BizTech Magazine, February 2013
169. "Outsourcing security services in the enterprise: Where to begin", SearchSecurity, February 2013
170. "Analysis: Inside the new PCI DSS risk assessment", SearchSecurity, February 2013
171. "Smartphones Are the New Multifactor Tokens in IT Security", BizTech Magazine, February 2013
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239. "UTM features: Is a UTM device right for your layered defense?", SearchSecurity, April 2011
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241. "Balancing Security and Productivity", Processor, April 2011
242. "Point to Point Encryption and PCI Compliance", Processor, April 2011
243. "Bringing Security to Smartphones", BizTech Magazine, March 2011
244. "Manage Your Firewall Rulebase Closely", BizTech Magazine, March 2011
245. "Firesheep, Fireshepherd, and Facebook: Understanding Session Hijacking", InformIT, February 2011
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247. "Mobile device security policy begins with mobile platform comparison", SearchSecurityChannel, February 2011
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249. "What Your Business Can Learn from WikiLeaks", BizTech Magazine, December 2010
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346. "Get ready for IPv6: Five security issues to consider", SearchSecurity, June 2005
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405. “Snort -- The poor man's intrusion-detection system”, SearchSecurity, March 2003
406. “Diffie-Hellman key exchange”, SearchSecurity, January 2003
407. “TICSA Certification: Information Security Basics”, InformIT, November 2002

Invited Lectures and Addresses

1. Podcast Guest, “On Cryptocurrency, Facebook’s Libra, And Data Security,” With a Side of Knowledge, August 2019.
2. Invited Speaker, “Uniquely Notre Dame,” Notre Dame Club of Northeastern New York, June 2019, Albany, New York.
3. Invited Speaker, “Uniquely Notre Dame,” Notre Dame Club of the Mohawk Valley, June 2019, Utica, New York.

4. Invited Speaker, “Notre Dame Traditions,” Notre Dame Club of Huntsville, November 2018, Huntsville, Alabama.
5. Invited Speaker, “Security and Privacy in the World of Big Data,” Association for Computing Machinery, October 2018, Chicago, Illinois.
6. Invited Speaker, “Auditing Practices for Privacy and Security,” Institute of Internal Auditors, October 2018, South Bend, Indiana.
7. Panelist, “Prosecuting Nation-State Actors to Enforce Cyber Norms”, Notre Dame International Security Center, September 2018, Notre Dame, IN.
8. Invited Speaker, “Notre Dame Traditions,” Notre Dame Club of Sacramento, July 2018, Sacramento, California.
9. Invited Speaker, “Threat Hunting in the Modern Security Operations Center”, Information Systems Audit and Control Association, May 2018, Newton, MA.
10. Class Speaker, “Security and Privacy in the World of Big Data,” Technology Law course, Notre Dame Law School, March 2018, Notre Dame, IN.
11. Panelist, “Cybersecurity in the Age of Digital Transformation,” Protiviti Executive Summit, February 2018, Chicago, Illinois.
12. Invited Speaker, “Privacy and Security Issues in Data Science,” Notre Dame MS in Data Science Program, January 2018, Palo Alto, California.
13. Podcast Speaker, “Spectre and Meltdown”, Knowledge@Wharton podcast, January 2018.
14. Invited Speaker, “Trailblazers: The Evolution of Notre Dame,” Notre Dame Club of Utah, November 2017, Salt Lake City, Utah.
15. Invited Speaker, “Navigating the Regulatory Maze: Compliance Issues in Higher Education,” New York State CIO Conference, July 2017, Clayton, New York.
16. Invited Speaker, “Trailblazers: The Evolution of Notre Dame,” Notre Dame Club of Memphis, May 2017, Memphis, Tennessee.
17. Class Speaker, “Privacy in a Cloud-Centric World,” Networking & Security course, IT Management program, University of Notre Dame, April 2017, Notre Dame, IN.
18. Class Speaker, “Compliance in the Cloud,” Internet Law course, Notre Dame Law School, April 2017, Notre Dame, IN.
19. Keynote Speaker, “Boldly Moving to the Cloud,” University of Chicago Cloud Forum, April 2017, Chicago, Illinois.

20. Invited Speaker, "Trailblazers: The Evolution of Notre Dame," Notre Dame Club of Connecticut, April 2017, Hartford, Connecticut.
21. Keynote Speaker, "Boldly Moving to the Cloud," University of Wisconsin IT Leadership Conference, February 2017, Madison, Wisconsin.
22. Invited Speaker, "Boldly Moving to the Cloud," EDUCAUSE Annual Conference, October 2016, Anaheim, California.
23. Invited Speaker, "A Legacy of Service", Notre Dame Club of Omaha, May 2016, Omaha, Nebraska.
24. Invited Speaker, "A Legacy of Service", Notre Dame Club of Long Island, March 2016, Islandia, New York.
25. Invited Panelist, "Cloud Ready: Preparing Your IT Organization," EDUCAUSE Annual Conference, October 2015, Indianapolis, Indiana.
26. Invited Speaker, "Stuxnet and the Advanced Persistent Threat," Institute of Internal Auditors, August 2015, South Bend, Indiana.
27. Invited Keynote, "Analytics Strategies: Culture, Collaboration, and Partnership," Administrative IT Summit, June 2015, Seattle, Washington.
28. Invited Speaker, "The Notre Dame Experience", Notre Dame Club of Harrisburg, June 2015, Harrisburg, Connecticut.
29. Invited Speaker, "The Notre Dame Experience", Notre Dame Club of the Jersey Shore, June 2015, Neptune, New Jersey.
30. Invited Speaker, "The Notre Dame Experience", Notre Dame Club of Jackson, May 2015, Jackson, Michigan.
31. Webcast Speaker, "Accelerating Cloud Deployment with Organizational Change Management," Internet2 Speakers Series, April 2015.
32. Invited Panelist, "Get Your Ducks in a Row: IT Governance, Risk, and Compliance in Higher Education," EDUCAUSE Annual Conference, October 2014, Orlando, Florida.
33. Invited Speaker, "The Notre Dame Experience", Notre Dame Club of the Triple Cities, May 2014, Binghamton, New York.
34. Invited Speaker, "Cyberwarfare and Collateral Damage," Naval Leadership Conference, February 2014, Notre Dame, Indiana.
35. Podcast Speaker, "Creating a Data Governance Program," EDUCAUSE Podcast, October 2013.

36. Invited Speaker, "Effective Data Governance Practices," Enterprise IT Leadership Conference, April 2013, Seattle, Washington.
37. Invited Speaker, "Process Improvement in Enterprise IT," Common Solutions Group, University of Southern California, January 2013, Los Angeles, California.
38. Invited Speaker, "Vulnerability Management Use Cases and Best Practices," Security Professionals Conference, May 2012, St. Louis, Missouri.
39. Invited Speaker, "Hacking the Election," University of Notre Dame, April 2012.
40. Podcast Speaker, "Fact or Fiction: Key Operational Elements to a Successful Layered Security Infrastructure", SearchSecurity, April 2011
41. Webcast Speaker, "Five Insider Tips: Using IT Audits to Maximize Security", NetIQ, April 2011
42. Video, "Defense in Depth 2.0", SearchSecurity, April 2011
43. Webcast Speaker, "Simplifying Encryption", SearchMidmarketSecurity, October 2010
44. Invited Lecture, "Enterprise Approaches to Information Security", MGTI 30640, April 2009, University of Notre Dame, Department of Management.
45. Invited Lecture, "Risk Management: A Practical Approach", MGT 60730, November 2008, University of Notre Dame, Department of Management.
46. Invited Lecture, "Information Security in Higher Education", CAPP 20505, October 2008, University of Notre Dame, Department of Computer Applications
47. Invited Lecture, "Hacking the Vote: Information Security and the 2008 Presidential Election", CAPP Speaker Series, University of Notre Dame, October 2008.
48. Webcast Speaker, "Improved Threat Monitoring in a Highly Distributed Enterprise Network - Expert Webcast", SearchSecurity, June 2008.
49. Podcast Speaker, "Making NAC work with your existing security tools", SearchSecurity, May 2008.
50. Invited Lecture, "Building a Risk-Based Information Security Program", EDUCAUSE Security Professionals Conference, May 2008, Crystal City, Virginia.
51. Invited Lecture, "Navigating the Regulatory Maze; Notre Dame's PCI Solution", EDUCAUSE Midwest Regional Conference, March 2008, Chicago, Illinois.
52. Guest Lecture, "Information Security", December 2007, Purdue University Dept. of Computer Technology

53. Invited Lecture, “Two Approaches to PCI DSS Compliance”, EDUCAUSE Security Professionals Conference, April 2006, Denver, Colorado.
54. Guest Lecture, “Information Security”, CSE 458, April 2005, University of Notre Dame Department of Computer Science and Engineering

Media Citations

1. “Hackers stole \$3.5 billion FireEye's prized 'red team' hacking tools — here's why that's bad news and why they existed in the first place”, quoted by Business Insider, December 9, 2020.
2. “Nation-State Hackers Breach Cybersecurity Firm”, quoted in CFO, December 9, 2020.
3. “Cybersecurity: FireEye è sotto attacco informatico”, quoted in Wall Street Italia, December 9, 2020.
4. “Cybersecurity firm FireEye discloses that it was hacked, sending its shares spiraling”, quoted in Fortune, December 8, 2020.
5. “Top Cyber Firm, FireEye, Says It's Been Hacked By A Foreign Govt.”, quoted by National Public Radio, December 8, 2020.
6. “A firm that helps protect businesses and cities from cyberattacks just got hit by one”, quoted by CNN, December 8, 2020.
7. “Direct Cash Payments For COVID-19 Relief Are Susceptible to Fraud”, interview on National Public Radio’s Morning Edition, April 27, 2020.
8. “Intrusion Detection Systems: What Are They, and How Do They Work?”, quoted in FedTech Magazine, April 20, 2020.
9. “Economic Stimulus Payments: A Fraud Target”, quoted in GovInfoSecurity.com, April 20, 2020.
10. “How the IRS plan for stimulus payments could enable identity theft”, OpEd published by the Washington Post, April 16, 2020.
11. “Excited to get your hands on that stimulus check? So are scammers”, quoted in Fortune, April 15, 2020.
12. “Stimulus Cash Puts IRS on Alert for Scammers Preying on Unwary”, quoted by Bloomberg, April 14, 2020.
13. “Google Updates Terms in Plain Language After EU Scrutiny”, quoted in The Washington Post, PBS.org, and more than 10 other media outlets via the Associated Press, February 20, 2020.

14. “U.N. Urges Probe Of Reported Hacking Of Jeff Bezos' Phone By Saudi Arabia”, interview on National Public Radio’s All Things Considered, January 22, 2020.
15. “Cybersecurity Trends And Best Practices For Insurers And Businesses,” Forbes, December 30, 2019.
16. “If your Disney+ account got hacked, it's probably your own fault,” OpEd published by CNN, November 21, 2019.
17. “Saudi “Twitter Spies” Broke No Federal Privacy Laws -- Because There Are None,” Homeland Security Newswire, November 12, 2019.
18. “Twitter spy scandal a wake-up call for companies to clean up their data access acts,” CSO Magazine, November 12, 2019.
19. “2 Ex-Twitter Employees Charged With Spying For Saudi Arabia,” live interview on National Public Radio (NPR) Morning Edition, November 7, 2019.
20. “Prosecutors Charge Twitter Employees with Spying for Saudi Arabia,” radio interview on Associated Press Radio, November 7, 2019
21. “Saudis Recruited Twitter Employees to Spy on Critics”, quoted in USA Today, November 6, 2019.
22. “Saudis Recruited Twitter Workers to Spy on Critics”, quoted in The New York Times, Washington Post, and over 300 other media outlets via the Associated Press, November 6, 2019.
23. “Iranian Government-Linked Hacker Targeted 2020 Presidential Campaign”, quoted in USA Today, October 4, 2019.
24. “Everyone’s Social Security Number Has Been Compromised. Here’s How to Protect Yourself.”, quoted in Forbes, August 1, 2019.
25. “Your Social Security number has already been hacked. Why do we still have them?”, quoted in Fast Company, August 1, 2019.
26. “Facebook-FTC deal means a \$5B fine for social network, but not much on face for users”, quoted in USA Today, July 24, 2019.
27. “How Does Libra Work?”, interview by Wisconsin Public Radio, June 18, 2019.
28. “Facebook launches Libra, its own cryptocurrency”, quoted in the Washington Post, June 18, 2019.
29. “Taking Social Security numbers public could fix our data breach crisis,” OpEd published by CNN, June 6, 2019.
30. “Australian CISOs struggling to stay ahead of escalating threats”, quoted in CSO Magazine, May 9, 2019.

31. “When’s the last time you looked at your incident response plan?”, quoted in SC Magazine, May 1, 2019.
32. “Big Tech can't be trusted. It's time for regulation”, OpEd published by CNN, April 30, 2019.
33. “Ponemon Institute says automation helps battle cyberattacks”, quoted in TechWire Asia, April 16, 2019.
34. “Botnet Attacks: How City Governments Can Defend Against DDoS Attacks Fueled by IoT Botnets”, quoted in StateTech Magazine, January 17, 2019.
35. “DC Slaps Facebook With Latest Suit Targeting Privacy Lapses”, quoted in The New York Times, December 19, 2018.
36. “Google Plus Will Be Shut Down After User Information Was Exposed”, quoted in The New York Times, Washington Post, and over 350 other media outlets via the Associated Press, October 8, 2018.
37. “Students on the Case”, quoted by Slate, September 28, 2018.
38. “Venmo Exposes User Transaction Data Publicly”, quoted by CNN, July 17, 2018.
39. “Iran doesn't have nukes yet, but it has another powerful weapon it can use against the US right now”, OpEd published by CNBC, May 10, 2018.
40. “How to Really Protect Your Digital Privacy: Move to Europe”, OpEd published by Fortune, April 17, 2018.
41. “The Latest: Reddit says it banned 944 suspicious accounts”, quoted in The New York Times, Washington Post, and over 430 other media outlets via the Associated Press, April 10, 2018.
42. “Cambridge Analytica Breach”, appeared live on ABC 57 News, April 1, 2018.
43. “Atlanta Ransomware Attack”, appeared live on ABC 57 News, March 28, 2018.
44. “U.S. Targets Alleged Iran State-Sponsored Hack”, quoted by the Wall Street Journal, March 26, 2018.
45. “Can Facebook restore public trust after privacy scandal?”, quoted by the Washington Post, March 25, 2018.
46. “How a Phone May Have Steered Hunt for Bomber”, quoted by The New York Times, March 21, 2018.
47. “What Facebook's Mark Zuckerberg didn't say — starting with, 'I'm sorry.'”, quoted by USA Today, March 21, 2018.
48. “Everything You Need to Know About the Meltdown and Spectre Exploits”, quoted by BizTech Magazine, January 2018.

49. “FCC Repeals Net Neutrality Regulation”, appeared live on ABC 57 News, December 14, 2017.
50. “Chicago companies fear unknown in net neutrality repeal”, quoted by the Chicago Tribune, December 14, 2017.
51. “Uber Had a Massive Data Hack: Here's How Worried You Should Be” quoted by The New Scientist, November 22, 2017.
52. “Russia Meddling Mess Will Cost Tech Giants Big Bucks To Fix”, OpEd published by CNBC, November 2, 2017.
53. “Facebook Quizzes Giving Personal Information Away, Experts Say”, appeared live on ABC 57 News, July 21, 2017.