

CURRICULUM VITAE

Mark Anthony Thompson, Sr.

✉ mark.thompson2@unt.edu • ☎ 940.369.7055 • 🌐 www.cse.unt.edu/~thompson/

EDUCATION

Louisiana Tech University	Ruston, LA
Ph.D., Computational Analysis and Modeling	May 2013
○ Concentration: Cyberspace, Network Science and Information Assurance	
○ Dissertation: Predicting Threat Potential Using Cyber Sensors	
○ Advisor: Vir V. Phoha, Ph.D.	
The University of Texas at Dallas	Richardson, TX
M.S., Mathematical Sciences	December 2005
The University of Texas at Dallas	Richardson, TX
M.B.A., Business Administration	May 1995
Tulane University	New Orleans, LA
B.S.E., Computer Engineering	May 1990

RESEARCH INTERESTS

Cybersecurity, Networking, Computer Forensics, Cyber Intelligence, Quantum Communications, and Blockchain Technologies

PROFESSIONAL APPOINTMENTS

University of North Texas	Denton, TX
<i>Senior Lecturer, Computer Science & Engineering</i>	August 2018 – present
University of North Texas	Denton, TX
<i>Lecturer, Computer Science & Engineering</i>	June 2014 – July 2018
Northwestern State University of Louisiana	Natchitoches LA
<i>Assistant Professor and Coordinator, Computer Information Systems</i>	August 2013 – May 2014
Northwestern State University of Louisiana	Natchitoches LA
<i>Assistant Professor, Computer Information Systems</i>	August 2011 – July 2013
Northwestern State University of Louisiana	Natchitoches LA
<i>Assistant Professor, Mathematics</i>	August 2008 – July 2011
Northwestern State University of Louisiana	Natchitoches LA
<i>Instructor, Mathematics</i>	August 2007 – July 2008
St. Mary's High School	Natchitoches LA
<i>Instructor, Mathematics</i>	August 2006 – July 2007
Bishop Lynch High School	Dallas, TX
<i>Instructor, Mathematics</i>	August 2005 – July 2006
Nortel Networks (formerly Bell-Northern Research)	Richardson, TX and McLean, VA
<i>Senior Member of Scientific Staff</i>	May 1990 – July 2005

GRANTS

National Security Agency , subaward with Fordham University Building a Seamless Pathway to Cybersecurity for Minority Serving Institutions in Texas PI: Ram Dantu (50%), Co-PI: Mark Thompson (50%)	\$221,387.48 September 2020 – September 2022
National Security Agency , subaward with Dakota State University Expanding Professors of Practice Through Engaging Industry Professionals and Recruiting Graduate Students PI: Ram Dantu (50%), Co-PI: Mark Thompson (50%)	\$235,557.92 August 2020 – August 2022
National Security Agency A Pathway to Degree in Cybersecurity and Work-Skill Readiness Tool for 56 Texas Community Colleges PI: Ram Dantu (50%), Co-PI: Mark Thompson (50%)	\$200,000.00 September 2020 – December 2021
State Farm Systems Priority Grant Multifaceted Outreach Program for Students, Teachers, and Professionals Co-PIs: Mark Thompson, Ram Dantu, Hyunsook Do, Philip Sweany, David Keathly	\$24,000.00 August 2017 – July 2018
National Science Foundation SFS-NEW: Advancing Learning and Leadership Through an Integrated Multidisciplinary Doctoral Program in Information Assurance PI: Ram Dantu (50%), Co-PI: Mark Thompson (50%)	\$16,000.00 July 2016 – August 2018
NASA Texas Space Grant Consortium Design Challenge Multi-Modal Human Interfaces Habitat System PI: Mark Thompson	\$3,200.00 August 2014 – May 2015
Louisiana Board of Regents Undergraduate Enhancement Program Data and Communications Networking Laboratory PI: Mark Thompson, Co-PIs: Jack Russell, Sarah Wright, Barbara Russell	\$14,561.00 July 2013 – June 2014
Louisiana Board of Regents Undergraduate Enhancement Program Mobile Applications Development Laboratory PI: Jack Russell, Co-PIs: Mark Thompson, Sarah Wright, Barbara Russell	\$16,673.00 July 2013 – June 2014
Louisiana Board of Regents Undergraduate Enhancement Program Engaging Students in Discrete Mathematics PI: Leigh Anne Myers, Co-PIs: Elizabeth Cole, Mark Thompson	\$125,361.00 July 2011 – June 2012

PUBLICATIONS

- Journal Articles**
- Shanti R. Thiyagaraja, Ram Dantu, **Mark A. Thompson**, Pradhumna L. Shrestha, Tom Sarma, M.D., and Siva Dantu, M.D., "A Novel Heart-Mobile Interface for Detection and Classification of Heart Sounds", *Biomedical Signal Processing and Control*, Volume 45, pp. 313-324, August 2018.
 - Mark Thompson** and Hassan Takabi, "Effectiveness of Using Card Games to Teach Threat Modeling for Secure Web Application Developments", *International Association for Computer Information Systems (IACIS), Issues in Information Systems*, Volume 17, Issue III, pp. 244-253, 2016.

Peer-Reviewed Conference Papers

1. Nilanjan Sen, Ram Dantu, and **Mark Thompson**, "Performance Analysis of Secure Real-time Transport Protocol Using Elliptic Curves", in *18th Annual IEEE International Conference on Intelligence and Security Informatics (ISI)*, Virtual, November 9-10, 2020.
2. Jagannadh Vempati, Ram Dantu, Syed Badruddoja, and **Mark Thompson**, "Adaptive and Predictive SDN Control During DDoS Attacks", in *18th Annual IEEE International Conference on Intelligence and Security Informatics (ISI)*, Virtual, November 9-10, 2020.
3. Rajasekhar Ganduri, Ram Dantu, **Mark Thompson**, Samuel Evans, and Logan Widick, "A Human-Network-Security-Interface for an Average Joe", in *18th Annual IEEE International Conference on Intelligence and Security Informatics (ISI)*, Virtual, November 9-10, 2020.
4. Anudeep Sai Muttavarapu, Ram Dantu, and **Mark Thompson**, "A Distributed Ledger for Spammers' Resume", in *2019 IEEE Conference on Communications and Network Security (CNS)*, Washington, D.C., June 10-12, 2019.
5. Jagannadh Vempati, Ram Dantu, and **Mark Thompson**, "Uninterrupted Video Surveillance in the Face of an Attack", in *2018 17th IEEE International Conference on Trust, Security and Privacy in Computing and Communications / 12th IEEE International Conference on Big Data Science and Engineering (TrustCom/BigDataSE)*, New York, NY, USA, August 1-3, 2018.
6. Nilanjan Sen, Ram Dantu, Jagannadh Vempati, and **Mark Thompson**, "Performance Analysis of Elliptic Curves for Real-Time Video Encryption", in *National Cyber Summit 2018 (NCS18)*, Huntsville, AL, June 5-7, 2018.
7. Shanti R. Thiyagaraja, Ram Dantu, Pradhumna L. Shrestha, **Mark A. Thompson**, and Christopher Smith, "Optimized and Secured Transmission and Retrieval of Vital Signs from Remote Devices", in *Proceedings of the 2017 IEEE/ACM Second International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE 2017)*, Philadelphia, PA, USA, July 17-19, 2017.
8. Jagannadh Vempati, **Mark Thompson**, and Ram Dantu, "Feedback Control for Resiliency in Face of an Attack", in *Proceedings of the 12th Annual Cyber and Information Security Research Conference (CISRC '17)*, Oak Ridge, TN, USA, April 4-6, 2017.

Preprints

1. Srikanth Jonnada, Ram Dantu, Ishan Ranasinghe, Logan Widick, **Mark Thompson**, and Janice A. Hauge, "Cyber-Human System for Remote Collaborators", <https://arxiv.org/abs/2009.03143>, September 2020.

Book Volumes and Chapters

1. Ramon E. Moore, R. Baker, Kearfott, and Michael J. Cloud, *Introduction to Interval Analysis*, SIAM, Philadelphia, 2009. Individual contributor cited in the preface of the book for supplying valuable corrections and suggestions to the manuscript.
2. **Mark Thompson**, *Mark's Easy Solution to the Rubik's Revenge*, Self-Published, 1983.

Research Posters

1. Ishan Ranasinghe, Arun Jayaraman, Ting Xiao, Ram Dantu, **Mark Thompson**, and Mark Albert, "Home Care Robotic Assistant Prototype for Remote Human Supervision: Development and Pilot Analysis of Exercise Repetition Counting over Multiple Viewing Angles", in *97th Annual Conference of American Congress of Rehabilitation Medicine (ACRM2020)*, Archives of Physical Medicine and Rehabilitation, Volume 101, Issue 11, E73, November 01, 2020.

PATENTS

1. **Mark Thompson** and Vir Phoha, "Predicting Threat Potential Using Cyber Sensors", Louisiana Tech University, United States Patent Application No. 61/983,797 filed on April 24, 2014.
2. Pat Conley, **Mark Thompson**, and Weilin Wang, "A High Availability Architecture for Carrier-Class X.500 Directory Servers", Nortel Networks, Patent Filed November 1, 2000.

PANELS

1. Tastle, W., Longenecker B., Feinstein, D., Guarneri, J., Pierce, M., Russell, J., **Thompson, M.** (2013). "Is Now the time to Bring Business Intelligence into the Curriculum?" In *The Proceedings of the Information Systems Education Conference*, v30 n.2654, San Antonio, TX, November 7-9, 2013. Internet: <http://proc.isecon.org/2013/panels/2654.html>.

INVITED TALKS AND TUTORIALS**Academia**

1. **Mark Thompson** and Ram Dantu, "Lessons Learned in Starting a B.S. in Cybersecurity During COVID-19 Pandemic", in *2020 CAE in Cybersecurity Community Symposium*, Virtual, November 19-20, 2020.
2. Ram Dantu and **Mark Thompson**, "Continuing Education Credits in Cybersecurity for First Responders", in *2020 CAE in Cybersecurity Community Symposium*, Virtual, November 19-20, 2020.
3. **Mark Thompson** and Ram Dantu, "An Innovative Approach Using Mixed Reality to Improving Career Readiness", in *2019 CAE in Cybersecurity Community Symposium*, Phoenix, AZ, November 21-22, 2019.
4. **Mark Thompson** and Ram Dantu, "Pathway for Community College Students to an ABET-Accredited Degree in Cybersecurity", in *2019 CAE in Cybersecurity Community Symposium*, Phoenix, AZ, November 21-22, 2019.
5. **Mark Thompson** and Ram Dantu, "Bridging the Gap: Developing Innovative Minds Early On for Cybersecurity", in *2018 CAE in Cybersecurity Community Symposium*, Miami, FL, November 8-9, 2018.
6. Rajasekhar Ganduri, Samuel Evans, Logan Widick, **Mark Thompson**, and Ram Dantu, "Adapting Security Through Community Engagement", in *2018 CAE in Cybersecurity Community Symposium*, Miami, FL, November 8-9, 2018.

Industry

1. **Mark Thompson**, "Message Transfer Part Level 3 (MTP3) in the SS7 Protocol Stack", Nortel Networks, Richardson, TX, July 2005.

-
2. **Mark Thompson**, Minheng Wu, and John Xiao, "Internet Secure Gateway using SSL Technology for Mobile Commerce", Nortel Networks, Richardson, TX, March 20, 2001.
 3. Brandon Kleinwort, John Xiao, and **Mark Thompson**, "Extended Dimensionality Display", Nortel Networks, Richardson, TX, December 6, 2000.
 4. **Mark Thompson**, "XML Overview", Nortel Networks, Richardson, TX, August 18, 2000.
 5. Pat Conley, **Mark Thompson**, and Weilin Wang, "A High Availability Architecture for Carrier-Class X.500 Directory Servers", Directory Special Interest Group (DSIG), Directory Special Interest Session (SIS) #4, Rochester, NY, October 12, 1999.
 6. **Mark Thompson**, "Directory Schema Design in X.500 & LDAP Directories", Directory Special Interest Group (DSIG), Directory Special Interest Session (SIS) #3, Rochester, NY, September 15-16, 1999.
 7. **Mark Thompson**, "Network Information Services Carrier Class Directory (CCD)", Directory Special Interest Group (DSIG), Directory Special Interest Session (SIS) #2, Rochester, NY, June 10, 1999.
 8. **Mark Thompson**, "Directories vs. Databases", Directory Special Interest Group (DSIG), Directory Special Interest Session (SIS) #1, Rochester, NY, May 20, 1999.
 9. **Mark Thompson**, "Digital Private Network Signaling System (DPNSS) on the Global Services Platform", Nortel Networks, Richardson, TX, April 1997.
 10. **Mark Thompson**, "Complete Overview of Troubleshooting XPM Software", XPM Workshop, Nortel Networks, October 16, 1996.
 11. **Mark Thompson**, "Security for Macintosh and IBM PC", User Support Forum, Nortel Networks, August 17, 1988.

Community

1. **Mark Thompson**, "Tips on Safely Navigating the Internet – Part II", Brown Bag Brunch and Presentation, The Episcopal Church of the Annunciation, Lewisville, TX, August 17, 2019.
2. **Mark Thompson**, "Hack Attack: Is Computer Security Out of Control?", Great Conversations 2019, UNT Honors College, Denton, TX, February 26, 2019. Internet: honors.unt.edu/great-conversations.
3. **Mark Thompson**, "Tips on Safely Navigating the Internet", Brown Bag Brunch and Presentation, The Episcopal Church of the Annunciation, Lewisville, TX, August 11, 2018.
4. **Mark Thompson**, "Introduction to Cryptography", Higher Learning Men's Group, The Episcopal Church of the Annunciation, Lewisville, TX, July 10, 2018.
5. **Mark Thompson**, "The Ups and Downs of Cryptocurrencies", Great Conversations 2018, UNT Honors College, Denton, TX, March 1, 2018.
6. **Mark Thompson**, "Cybersecurity and How to Protect your Connected Crock-Pot", Great Conversations 2017, UNT Honors College, Denton, TX, February 28, 2017. Blog: wedentondoit.com/blog/2017/2/12/table-talk-great-conversations-at-unt.

PEER REVIEWER, JOURNALS

1. Standing Reviewer, *Elsevier Blockchain: Research and Applications*, 2020 – present.
2. Standing Reviewer, *Elsevier Computers & Security*, 2017 – present.

SUMMER CAMPS

1. **Mark Thompson**, "Computer Data Recovery and Web Browser Forensics", Cyber Forensics Camp, sponsored by Cyber Innovation Center (CIC), Northwestern State University, July 2012.
2. **Mark Thompson**, "Computer Data Recovery and Web Browser Forensics", Cyber Forensics Camp, sponsored by Cyber Innovation Center (CIC), Northwestern State University, July 2011.

TEACHING EXPERIENCE

University of North Texas

Denton, TX

- Research affiliate with the Center for Information and Cyber Security (<https://cics.unt.edu>) and Network Security Lab (<https://nsl.cse.unt.edu>).
- CAE Coordinator for designation as a National Center for Academic Excellence in Cyber Defense Education (CAE-CDE) for 2017 – 2022 and Cyber Defense Research (CAE-R) for 2019 – 2024 by the NSA and DHS.
- Architect for B.S. in Cybersecurity curriculum at UNT approved by the Texas Higher Education Coordinating Board (THECB) effective in Fall 2020.
- *Courses taught or currently teaching:*
 - CSCE 1030 Computer Science I
 - CSCE 1035 Computer Programming I
 - CSCE 1040 Computer Science II
 - CSCE 1045 Computer Programming II
 - CSCE 2110 Computing Foundations II
 - CSCE 2610 Assembly Language and Computer Organization
 - CSCE 3110 Data Structures and Algorithms
 - CSCE 3600 Principles of Systems Programming
 - CSCE 4550 Introduction to Computer Security
 - CSCE 4555 Computer Forensics
 - CSCE 4600 Operating System Design
 - CSCE 4890 Directed Study
 - CSCE 4940 Special Computer Application Problem
 - CSCE 4999 Senior Thesis
 - CSCE 5560 Secure Electronic Commerce
 - CSCE 5555 Computer Forensics
 - CSCE 5580 Computer Networks

Northwestern State University of Louisiana

Natchitoches, LA

- Managed five student/classroom labs, supervised student lab workers, scheduled departmental classes, oversaw CIS curriculum, and served as an interface between faculty and administration.
- Architect for B.S. in Computer Information Systems (CIS) curriculum that updated and expanded program to include concentrations in Application Development and Networking & Systems Management.
- Member of Steering Committee with Cyber Innovation Center (CIC) to bring fortune 200 company technology center to Bossier City, LA.
- *Courses taught:*
 - CIS 2000 Spreadsheet Applications (Microsoft Excel Certification)
 - CIS 3100 Information Systems and Technology in Business

-
- CIS 3300 Intermediate Object-Oriented Programming
 - CIS 3400 Telecommunications and Networks (Network Pro Certification)
 - CIS 3980 Introduction to Information Security (Security Pro Certification)
 - CIS 4020 Advanced Object-Oriented Programming
 - CIS 4040 Cyber Forensics
 - CIS 4100 Web Applications: Server-Side Development
 - CSC 1060 Program Design I (Game Development)
 - CSC 2060 Program Design II (Game Development)
 - MATH 920 Introduction to Basic Mathematics
 - MATH 1020 College Algebra
 - MATH 1060 Finite Mathematics

St. Mary's High School

Natchitoches, LA

- Prepared curricula and lectured on topics in Calculus I, Calculus II, Advanced Mathematics and Trigonometry, Algebra II, Algebra I, Introduction to Computers, and Introduction to Computer Programming.

Bishop Lynch High School

Dallas, TX

- Prepared curricula and lectured on topics in Algebra I and Scholastic Aptitude Test (SAT) Preparation. Also served as Assistant Coach of Cross Country and Track & Field.

PROFESSIONAL EXPERIENCE**Nortel Networks (formerly Bell-Northern Research)**

Richardson, TX, and McLean, VA

Senior Member of Scientific Staff, GPRS/UMTS Development

January 2002 – July 2005

Senior software developer on Nortel's Serving GPRS Support Node (SGSN) platform, primarily responsible for software development using C++ on the Signaling Gateway (SG) component that includes the SS7 protocol stack.

- Subject matter expert (SME) and software code owner for Message Transfer Part Level 3 (MTP3) network layer software, including related features such as SG Enhancements, SG Reset Handling, and Signaling Connection Control Part (SCCP) Overload.
- Technical project lead for all aspects of planning, development, testing, and support MTP3 Link Audit feature to minimize data loss and provide automated real-time link recovery, MTP3 Robustness for SG Enhancements feature to handle overload conditions on SG, and other SG-related features.
- Key member of InterLan Switching (ILS) Message Router tiger team formed to resolve critical field issues by providing robustness and stability to SGSN platform during component outage conditions through the creation of a message router software layer designed to bypass affected components with minimal processing impact.

Advisor, Wireless Service Networking

October 1998 – December 2001

Team Leader and systems architect for software design group responsible for technical and strategic leadership to design team as well as customers, including OOP development using both Java and C++ on UNIX and Windows-based environments, proposal evaluations, and hiring of personnel.

- Systems architect for NSD500 (X.500/LDAP) Directory product that achieved Entrust Directory Certification.

- Technical project lead for all aspects of planning, development, testing, and support of Voice Navigation (VoiceXML) project and Wireless Services Framework (GPRS/UMTS) that included Mobile Commerce and Internet Secure Gateway.
- SME in relevant standards such as DEN/CIM, PKI (X.509), F.510, and X.500/LDAP, within the ITU, IETF, DMTF, and W3C organizations for strategic product direction.
- Received recognition through PRIDE Award for outstanding activities relating to NSD500 Directory product.
- Patent filed for *A High Availability Architecture for Carrier-Class X.500 Directory Servers*.

Services Consultant, ServiceBuilder

October 1997 – May 2001

Technical project lead and systems architect on all phases of strategic planning, development, testing, support, documentation, and administration of custom AIN0.1 services on Nortel's ServiceBuilder (SB) platform for Local/Retail Services group at MCI Worldcom.

- Provided seamless integration of SB Service Control Point (SCP) services with a DMS-100 Class 5 Service Switching Point (SSP).
- Provided consulting support to Local/Retail Services AIN group at MCI Metro, including training on SB Service Order Provisioning (SOP), Service Creation Environment (SCE) architecture, and Service Independent Building Block (SIBB) creation.
- SB architect for Concert Communications Services and DMS-GSP network rationalization and design effort to migrate existing and design new SB services.
- SME in technologies and protocols and databases that interworked with SB platform such as AIN0.1, H.323, CS-1R, CCS7/SS7, TCAP/SCCP, and SNMP.
- Solely responsible for all phases of service planning, analysis, design, development, testing and support of custom secure services on ServiceBuilder platform to support a *classified* mission, including creation of custom SIBBs on the SB platform.

Senior Member of Scientific Staff, Int'l Switching Development

March 1996 – October 1997

Technical project leader and senior software developer for feature development on the DMS-Global Services Platform (GSP), which included acting in a management capacity when required, mentoring junior designers, and sizing proposed feature work through research and prototyping.

- Technical project lead for software development in CS-1R compliant IN support of ISDN trunk agencies (ETSI/ANSI/Dutch variants), DPNSS/DASS2 signaling trunk protocols, Intelligent Networks Application Part (INAP) support for Primary Rate Interface (PRI), and TCAP/SCCP for IN applications.
- Recognized for outstanding design contribution for introduction of Global Services Platform (GSP).

Senior Member of Scientific Staff, MSL-100 Product Support

May 1990 – March 1996

Technical team leader for all areas of software support on the MSL-100 (PBX) product, which included acting in a management capacity when required, screening incoming problem reports, mentoring junior engineers, and interviewing personnel.

- Technical interface with design community and Technical Assistance Support (TAS) team to ensure issues are resolved according to design specifications.
- Established and maintained standards for the software patch process to prevent defects and support design principles.
- Responded to critical customer issues and outages via pager and performing thorough follow-up investigations of outages and degradations affecting the product.
- Responsible for creating, inspecting, and approving software patches.

- Subject matter expert (SME) on voice and data terminals, line and trunk agencies, feature processing environment (FPE), automatic call distribution (ACD), peripheral modules such as the Digital Line Module (DLM) and Intelligent Peripheral Equipment (IPE), attendant consoles (operator services), Autovon (military) applications, and all areas of software patching.

Summer Intern, User Support Summers 1988, 1989
 Rendered technical assistance on the help line to engineers with software and hardware difficulties on Unix, DOS, Macintosh, and Mainframe platforms. Also created and managed software databases for the department and presented forums on various hardware and software packages for the lab.

Tulane Computing Services New Orleans, LA
Information Systems Consultant September 1987 – May 1990
 Rendered technical assistance to Tulane faculty, staff, and students with software and hardware difficulties on Mainframe, DOS, and Macintosh platforms.

ADVISING AND MENTORING

Ph.D. Dissertation Committee

1. Ehsan Hesamifard, "Privacy Preserving Machine Learning as a Service" March 2020
2. Gregory Joshua Talkington, "Sheparding Network Security Protocols as They Transition to New Atmospheres: A New Paradigm in Network Protocol Analysis" October 2019
3. Nilanjan Sen, "A Performance and Security Analysis of Elliptic Curve Cryptography Based Real-Time Media Encryption" August 2019
4. Quentin Mayo, "Detection of Generalizable Clone Security Coding Bugs Using Graphs and Learning Algorithms" October 2018
5. Jagannadh Vempati, "A Control-Theoretic Approach for Resilient Network Services" July 2018
6. Dmitry Nurmuradov, "Hybrid Approaches in Test Suite Prioritization" December 2017

M.S. Thesis Committee

1. Augustin Tran, "Encrypted Collaborative Editing Software" March 2020
2. Paula Faye Mears, "Managing Access During Employee Separation Using Blockchain Technology" December 2019
3. Htoo Aung Win, "BSM Message and Video Streaming Quality Comparative Analysis Using Wave Short Message Protocol (WSMP)" April 2019
4. Steffy Ann Mathews, "Optimization of an SDR Based Aerial Base Station" May 2017
5. Rajasekhar Ganduri, "Network Security Tool for a Novice" May 2016
6. Tawfiq M. Shaw, "Radium: Secure Policy Engine in Hypervisor" May 2015
7. Mohan Krishna Tarigopula, "Integrity Verification of Applications on Radium Architecture" May 2015

PROFESSIONAL SERVICE

To the University of North Texas (UNT)

Steering Committee Member, *Hot Topics in Networking and Security (HoNeST)*, Plano, TX March 2015

To the Department of Computer Science and Engineering at UNT	
Program Coordinator	
• Cybersecurity	August 2020 – present
• Computer Science	August 2019 – October 2020
Faculty Advisor, Application Development Organization (A.D.O.)	August 2018 – present
Member, Undergraduate Curriculum Committee (UCC)	2014 – 2016, August 2018 – present.
Faculty Mentor to Junior CSE Faculty (Dr. J. Helsing)	July 2018 – May 2020
Course Coordinator	
• CSCE 4560, Secure Electronic Commerce	January 2018 – present
• CSCE 3600, Principles of Systems Programming	January 2016 – present
Member, Faculty Search Committee	
• Lecturer Faculty Search Committee	2017, 2019, 2020 – present
• Security Faculty Search Committee	2016 – 2017
Peer Mentor Coordinator	May 2016 – present
Undergraduate Academic Advisor	
• Cybersecurity	August 2020 – present
• Computer Science	June 2016 – October 2020
Member, Scheduling Committee	August 2014 – February 2015
Member, Student Appeals Committee	August 2016 – May 2017
Faculty Tour Leader, CSE First Flight	2015 – 2019
Computer Science and Engineering Presenter, Mean Green Merit Day	2015, 2018
Faculty Advisor, NASA Texas Space Grant Consortium (TSGC) Design Challenge	2014 – 2015
To the Northwestern State University of Louisiana (NSU)	
Judge, FBLA District III Conference	2012 – 2014
Member, SACS Compliance Committee	2012
Member, University Center for Excellence in Teaching and Learning Committee	2010 – 2011
Member, Electronic Initiatives Group Planning Committee	2011 – 2014
Moderator, Northwest Louisiana High School Literary Rally	2007 – 2014
To the Department of Computer Information Systems at NSU	
Undergraduate Academic Advisor	2011 – 2014
To the Department of Mathematics at NSU	
Exploratory Committee Member, Concentration in Healthcare Informatics	2011
Moderator and Judge, Demon Math Classic	2007 – 2011
To the Community	
Sound Team Member, The Episcopal Church of the Annunciation, Lewisville, TX	May 2016 – Present

Career Day Speaker, Bowie Elementary School, Richardson, TX	May 2016
Course/Race Volunteer, Marcus High School Cross Country & Track & Field	2015 – 2018
Reader/Lector, The Episcopal Church of the Annunciation, Lewisville, TX	June 2014 – Present
Sunday School Teacher, The Episcopal Church of the Annunciation, Lewisville, TX	June 2014 – Present
IT Consultant/Volunteer, The Episcopal Church of the Annunciation, Lewisville, TX	April 2015 – present
Ministry Leader, The Episcopal Church of the Annunciation Running Club, Lewisville, TX	2014 – 2018
Meal Service Volunteer, Austin Street Center, Dallas, TX	2014 – 2015
Merit Badge Counselor, Boy Scouts of America, Troop 114, Lewisville, TX	2014 – 2017
Cyber Science Technical Advisor, NSU Middle Lab School, Natchitoches, LA	2012 – 2014
Merit Badge Counselor, Boy Scouts of America, Troop 60, Natchitoches, LA	2012 – 2014
Marshall and Umpire, Southland Conference Outdoor Track & Field Championships	2011
Volunteer Coach, MATHCOUNTS, Natchitoches, LA	2010 – 2011
Member, Steering Committee, and Developer, Race Management Software, Natchitoches Habitat for Humanity 1-Mile and 5K Run/Walk, Natchitoches, LA	2010
Den Leader, Boy Scouts of America, Pack 60, Den 8, Natchitoches, LA	2009 – 2012
Marshall and Umpire, Annual NSU Track & Field Invitational, Natchitoches, LA	2007 – 2013
IT Consultant/Volunteer, Trinity Episcopal Church, Natchitoches, LA	2006 – 2014
Sunday School Teacher, Trinity Episcopal Church, Natchitoches, LA	2006 – 2014

CERTIFICATIONS

- | | |
|---|----------------|
| 1. Microsoft Office Specialist, Microsoft Office Excel 2010 | September 2011 |
|---|----------------|

PROFESSIONAL ORGANIZATIONS

Association of Information Technology Professionals (AITP)	2013 – 2014
Education Special Interest Group (EDSIG) of AITP	2013 – 2014
Certified Official, Southern Association of USA Track & Field	2009 – 2012
LA/MS Section of the Mathematical Association of America (MAA)	2008 – 2013

HONORS AND AWARDS

1. Nominated by Outstanding Sophomore in Computer Science and Engineering, Outstanding Junior in Information Technology, and Outstanding Senior in Computer Science as a member of faculty who has been a source of support and inspiration for Honors Day Convocation, UNT, April 2019.
2. Mean Green Faculty/Staff Spotlight Award, given to faculty and staff members who have been instrumental in supporting and advocating for student athletes, UNT, November 2018.
3. Nominated for the 'Fessor Graham Award, the highest honor given to a faculty member directly from the student body, to recognize a faculty member who shows outstanding and unselfish service to students, UNT, 2017.

4. Nominated by Outstanding Junior in Computer Science as member of faculty who has been a source of support and inspiration for Honors Day Convocation, UNT, April 2017.
5. Nominated by Outstanding Freshmen in Computer Science and Engineering as member of faculty who has been a source of support and inspiration for Honors Day Convocation, UNT, April 2016.
6. BellSouth Endowed Professorship for Telecommunications, NSU, 2013 – 2014.
7. Roy O. Martin, Sr., Endowed Professorship for CIS, NSU, 2011—2012 and 2012 – 2013.
8. Guest Coach, Lady Demons Soccer Team, for going above and beyond to help student-athletes, NSU, September 2011.
9. LA/MS MAA Section NExT (New Experiences in Teaching) Fellow, 2008 – 2009.
10. Sports Honor Roll, Bishop Lynch High School, Dallas, TX, Inducted 2005.
11. Outstanding Contribution to the Introduction of the Global Services Platform, Nortel Networks, Richardson, TX, 1997.
12. Varsity Letterman and Team Captain, Cross Country/Track & Field, Tulane University, 1987 – 1990.
13. Eta Kappa Nu, Electrical Engineering Honor Society, Tulane University, 1990.
14. Phi Eta Sigma, Freshman Honor Society, Tulane University, 1987.

ADDITIONAL INFORMATION

- U.S. Citizen
- Security Clearance – Expired
- Bilingual in English and Spanish.
- Extensive knowledge in numerous computer operating systems, applications, programming languages, markup technologies, and protocols.

REFERENCES

- Available upon request.