

Nadine Shillingford, Ph.D.
nshillingford@mmc.edu

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Senior Security Engineer/Project Manager/Chief Diversity Advocate

Stage 2 Security, LLC
Lehi, UT

Education

Ph.D. in Computer Science, University of Notre Dame, Notre Dame, IN	2005-2010
M.S. in Software Engineering, Andrews University, Berrien Springs, MI	1999-2001
B.S. in CIS (magna cum laude), Andrews University, Berrien Springs, MI	1995-1998

Academic Appointments *[Note: in reverse chronological order]*

Professor of Practice College of Computing and Technology Lipscomb University Nashville, TN	2015-2021
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Assistant Professor Department of Computer Science and Software Engineering Rose-Hulman Institute of Technology Terre Haute, IN	2010 - 2013
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Assistant Professor Department of Computer Science Andrews University Berrien Springs, MI	2001-2005
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Professional Positions and Experience

Senior Security Engineer/Project Manager/Chief Diversity Advocate
Stage 2 Security, LLC
Lehi, UT

Principal Cybersecurity Engineer
Defense Point Security, LLC
Reston, VA

Consultant
General Electric
Reston, VA

Consulting Application Engineer/Senior Security Engineer
Hospital Corporation of America
Nashville, TN

Certification and Licensure

Splunk Certified Architect	2019
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Professional Development *[Note: List in reverse chronological order, include year]*

Professional Memberships and Activities

ACM	2022-Present
SIGSAC	2022-Present
ACM-W	2022-Present
Women in Cybersecurity (WiCys)	2020-Present
SplunkTrust	2017-Present
InWic	2011-2013

Committee Assignments and Administrative Services

Rose-Hulman Institute of Technology CSSE Advisory Board	2013-Present
Stage 2 Security Diversity and Inclusion Committee	2022-Present

Educational Activities

Courses

Modern Computer Applications for Data Science, Lecturer (2021)
Case Studies in Data Science, Course Developer (2018, 2019)
Software Engineering Practicum, Advisor (2017-2018)
Big Data Management and Analytics, Lecturer (2017, 2018)
Software Engineering Requirements/Modeling, Lecturer (2017)
Software Architecture/Design, Lecturer (2017)
Computer Architecture, Lecturer (2010-2013)
Computer Networks, Lecturer (2010-2013)
Computer Security, Lecturer (2010-2013)
Database Systems, Lecturer (2013)
Wireless Ad-Hoc Networks, Course Developer (2011)
Data Structures, Lecturer (2001-2005)
Formal Methods, Lecturer (2012)
Computer Science I & II, Lecturer (2001-2005)
Object Oriented Programming, Lecturer (2001-2005)
Computer Organization, Lecturer (2001-2005)
Computer Systems, Lecturer (2013)

Student Advising

Shruti Telang (Lipscomb University), Multicuisine2Go: An online food ordering website. Software Engineering Practicum, 2018.

John Patterson (Rose Hulman institute of Technology), "*An Investigation of the MAC layer mechanisms of 802.11n and its suitability to Wireless Mesh Networks.*" Thesis advisor, 2011-2012. John was interested in studying the enhancements of 802.11n and its suitability for wireless mesh networking.

Nathan Shevick, Jason Block and Philip Scherer (Rose Hulman institute of Technology), "*Topics In Multi-Touch Application Design.*" Independent study advisor, Winter 2012. The students studied usability, design, and security considerations in developing multi-touch applications for mobile devices in gaming and education. They developed a multi-touch project for a tablet focusing mainly on the Windows 8 Metro API.

Michael McDonald (Rose Hulman institute of Technology), "*Improvement to the Wireless Stove Unit Monitoring System (SUMS).*" Independent study advisor, Fall 2011. Michael made modifications to the UC Berkeley Wireless Stove Unit Monitoring System (SUMS) project including increased wireless robustness, decreased cost through alternative hardware, and data processing algorithms to reduce end-user processing.

Annmarie Stanley. "*Computer Networks.*" Independent study advisor, Fall 2011. Annmarie studied the set of network socket programs (written in C) used in the Computer Networks course and ported them over to Python.

Kenny Skaggs and L. Preston Segó III (Rose Hulman institute of Technology), "*Reversing Hash Algorithms*." Independent study advisor, Spring 2011. The students were interested in understanding how computer security applications use hashing to hide information in plain sight. They attempted to design a neural network to reverse a hash and an algorithm capable of training the neural network.

Grants and Contract Awards

Nadine Shillingford. "Students With an Interest in the Future of Technology (SWIFT): A Proposal for the Establishment of a Collegiate Cyber Defense Competition (CCDC) Team," Submitted to Rockwell-Collins, 2011 (Funded - \$15,000).

Publications

Nadine Shillingford, "Splunk 8", Packt Publishing, Estimated publishing date - 2023.

Nadine Shillingford, "Why I Would Like to Move to New Zealand: Splunking Gender Equality Data.", Submitted to Splunk .conf Conference, 2022.

Nadine Shillingford, "Observability in the Art World: Utilizing RPi Sensor Data and APIs to Monitor Customer Engagement", Splunk .conf Conference, 2021.

M. Ann Shillingford , Shannon Trice-Black, and Nadine Shillingford. "A Technological Resource for School Counselors Working with Haitian Immigrant Students." Submitted to the Journal of School Educational Technology, 2012.

Nadine Shillingford and Khadija Stewart, "Cybergirls Outreach: A Cyber Outreach Program for Middle and High School Females." ASEE IL/IN 2012 Section Conference, Valparaiso, IN, 2012.

Nadine Shillingford and Christian Poellabauer. "QoS Adaptation in Wireless Mesh Networks" N² Workshop, Chicago, IL, 2010.

Nadine Shillingford and Christian Poellabauer. "Route Customization in Ad-Hoc Networks" Elsevier Ad-Hoc Networks Journal, 2010.

Pramita Mitra and Nadine Shillingford. "Routing Challenges in Wireless Ad-Hoc Networks" Grace Hopper Celebration of Women in Computing (Poster), Tucson, AR, 2009.

Nadine Shillingford and Christian Poellabauer. "Configurable Mesh Routing" HotMesh Workshop, Kos, Greece, 2009.

Nadine Shillingford and Christian Poellabauer. "Configurable Mesh Routing in Ad-Hoc Networks" Refereed Poster at HotMobile, Napa Valley, CA, 2009.

Nadine Shillingford and Christian Poellabauer. "Configurable Routing in Ad-Hoc Networks" Technical Report: TR-2008-03, Notre Dame, IN, 2008.

Nadine Shillingford, Dave Salyers, Aaron Striegel and Christian Poellabauer "DETOUR: Delay- and Energy-Aware Multi-Path Routing in Wireless Ad Hoc Networks" MOBIQUITOUS, Philadelphia, PA, 2007.

Nadine Shillingford "Web Database Applications with PHP and MySQL Student Manual" O'Reilly & Associates Inc, 2006.

Oral Presentations *[Note: this section is for presentations given where you are an author]*

Invited Presentations	Date
CAPWIC Careers Panelist	2022

Peer-reviewed Presentations <i>(including Workshops)</i>	Date
Splunk .conf Presentation	2022
Splunk .conf Virtual Presentation	2021

Poster Presentations

National/International Meetings	Date
Grace Hopper Celebration of Women in Computing	2009