

Sarah Elder

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Education

North Carolina State University, Raleigh, NC

GPA: 3.7

Anticipated PhD: 2019

MS, PhD Computer Science

Provost Fellowship Recipient (2015-2016), Graduate Research Assistant (2016-2017)

Dissertation: **Identifying and Consolidating Security Requirements in Regulatory Documents**

University of Virginia, Charlottesville, VA

GPA: 3.6

Graduation Date: May 2012

BA Computer Science, BA History

Graduate Coursework

- Software Security (Fall 2015)
- Software Engineering (Fall 2015)
- Human Computer Interaction (Fall 2015)
- Algorithms (Spring 2016)
- Networks (Spring 2016)
- Software Engineering as a Human Activity (Spring 2016)
- Computational Applied Logic (Fall 2016)
- Experimental Statistics (Fall 2016)

Technical Skills

Proficient In

Java, C++, MySQL, Selenium (Webdriver)

Familiar With

Python, R, HTML, ArcGIS, Word, Excel, PowerPoint

Experience

IBM, DC Metropolitan Area

2012-2015

I/T Specialist

- Prepared test plans and test data, and analyzed defects found in a claims management system
- Provided guidance and training to new members of the test team
- Performed requirements analysis and researched interoperability standards for use in an online educational assessment system
- Assisted in multiple proposal efforts

Corporation for National Research Initiatives, Charlottesville, VA

2012

Intern

NASA Langley Research Center, Hampton, VA

2011

DEVELOP/LARSS Summer Internship Program Participant

Service

NC State STARS, Raleigh, NC

- Assisted in Saturday sessions that teach programming skills to students from underserved populations

IBM Public Sector Women's Networking Group (PSWNG), DC Metropolitan Area

- Participated in the IBM's Public Sector Women's Networking Group (PSWNG) mentoring program
- Volunteered with the PSWNG teaching Saturday classes at a charter school in Washington D.C.

Peer-Reviewed Publications

Riaz, M., **Elder, S.**, Williams, L., “Systematically Developing Prevention, Detection, and Response Patterns for Security Requirements”, 3rd International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Beijing, China, September 2016

Johnson, B., Pandita, R., Smith, J., Ford, D., **Elder, S.**, Murphy-Hill, E., Heckman, S., Sadowski, C., “A Cross-Tool Communication Study on Program Analysis Tool Notifications,” Proceedings of the 2016 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering, Seattle, WA, October 2016, pp. 73-84