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Work Experience

Microsoft

Program Manager 2 • November 2018 – Present
- Leading planning for two security teams (10+ engineers) focused on pen testing and service security.
- Rebuilt a "security drivers" program, ensuring 30+ teams have engineers keeping security top-of-mind.
- PM driver of improvements to Engineering Systems Security in my division within Office.
- Creating new partnerships internally between MS Office and Microsoft Research; projects include.
  - Evaluating the effectiveness of static analysis rules in Office, and
  - Determining sources of dissatisfaction for security professionals at Microsoft.

Program Manager • July 2018 – November 2018
- Drove security bug burndown across 18,000 employees for the MS Office 2019 on-prem release.
- Rolled out security tooling to support an inventory of assets and current status across 100+ live services.

Microsoft Research - Cambridge, UK

Research Intern • May 2014 – August 2014, May 2015 – August 2015
- Innovated and developed a data-driven approach to attack surface estimation (C#, MSSQL, Python).

Self Employed

Freelance Work • August 2012 – Present
- Consulting with startups in Cincinnati and Columbus; building MVPs, picking up slumping projects, etc.
- Wrote research programs for a computational chemistry lab at the University of Cincinnati
- Acted as an expert witness for a Raleigh-based company, helping to settle a multi-million dollar lawsuit.

Northrop Grumman – Xetron

Software Engineer • March 2009 – September 2009 (Co-op), June 2010 – August 2012
- Led a team in developing a custom automated testing framework for an embedded system (TCL).
- Classified tasking (previously held TS/SCI) in security and software engineering (C, C++, ASM, MIPS).
- Responsible for multiple investigations into new reverse engineering targets (IDA Pro).
- Drove customer satisfaction from Satisfactory to Outstanding while in a customer-facing position.

Siemens PLM Software

Software Engineer (Co-op) • March 2007 – September 2007, March 2008 – September 2008
- Developed scalability tests for servers to estimate server usage for CAD software (NX, SolidEdge).

Education

North Carolina State University • PhD in Computer Science: August 2013 – June 2018 • GPA: 3.87

Research Assistant • Spring 2014 – June 2018
- Dissertation Title: *Risk Based Attack Surface Approximation (RASA): Feasibility and Applicability*
- Designed course material for an online course on software security with over 1,000 students.
- Published ten conference and journal papers, including award-winning submissions.
- Mentored two undergraduate students during their first research experience in academia.

Teaching Assistant • Software Security – Fall 2013, Fall 2014, Fall 2016
- Designed penetration testing and secure design assignments for the class, lectured to 100+ students.

University of Cincinnati • Bachelor of Science in Computer Science - June 2010 • GPA: 3.7

Skills/Achievements

- Languages: C, C#, Python, some Javascript.
- Data Technologies: SciPy, NumPy, Scikit Learn, D3.js, MSSQL, some R, some SAS products.
- 1st Place Graduate Students – Student Research Competition (SRC) at FSE/ESEC 2015.
- 3rd Pace Graduate Students – SRC Grand Finals (included all winners of SRC's at all ACM conferences).
- Most Outstanding Co-op – Computer Science Class of 2010.
- U.S. Marine Corps Leadership Award for leadership in the classroom – May 2008.