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Work Experience

Microsoft Research Cambridge UK

Research Intern – May 2014 – August 2014, May 2015 – August 2015

- Innovated and developed an automated approach to attack surface estimation; approach implemented on product teams within the company.
- Supported optimization efforts in software engineering management for internal Microsoft teams.

Self Employed

Freelance Work – August 2012 – August 2013

- Supported startups in the Cincinnati and Columbus areas in various capacities; entry into tech incubators, course correction on flagging projects, et cetera.
- Technical assistant to computational chemistry lab at the University of Cincinnati (development in C/Python, code reviews, troubleshooting, bug fixes).

Northrop Grumman – Xetron

Software Engineer (Band 1) – June 2010 – August 2012

- Individual classified tasking in the realm of network security and software engineering.
- Responsible for multiple investigations into new reverse engineering targets.
- Drove customer satisfaction from Satisfactory to Outstanding while in a customer-facing position.
- Provided on-site and remote technical assistance to customers in technical and non-technical roles.

Software Engineer (Co-op) – March 2009 – September 2009

- Lead a small team in developing a custom automated testing framework

Siemens PLM Software

Software Engineer (Co-op) – March 2007 – September 2007, March 2008 – September 2008

- Acted as go-between for software developers and customers; use cases, simple bug fixes, etc.
- Developed scalability tests for servers to estimate server usage for CAD software (NX, SolidEdge)
- Started development of a web front end for scalability tests.

Education

North Carolina State University – PhD in Computer Science: August 2013 – Present – GPA: 3.87

Teaching Assistant – Software Security – Fall 2013, Fall 2014

- Designed multiple penetration testing and secure design assignments for the class.
- Lectured on multiple occasions on software security topics to classes of 100+ students.

Research Assistant for Software Security MOOC – Spring 2014 – Present

- Created stand-alone VM with introductory security exercises for online students

University of Cincinnati – Bachelors of Science in Computer Science: Graduated June 2010 – GPA: 3.7

- Senior design project; a ranking, sorting, and categorization system for Twitter.

Skills/Achievements

- Languages: C, C#, Python, MIPS, PPC, batch/bash scripting, some Ruby/Rails, Java.
- Technical writing, proposal/statement of work drafting.
- Technical leadership and project management experience in a startup environment.
- Most Outstanding Co-op – Computer Science Class of 2010.
- Marine Leadership Award for leadership in the classroom – May 2008.