



## Christopher Theisen

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### Work Experience

#### 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; 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).
- Acted as expert witness for Raleigh-based company, helping to settle multi-million dollar lawsuit.

### Northrop Grumman – Xetron

*Software Engineer • 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

*Research Assistant • Spring 2014 – Present*

- Created stand-alone VM with introductory security exercises for online students.
- Research into Risk Based Attack Surface (RBAS) – approach for locating vulnerable code.
- Published five conference papers, including several award winning submissions.

*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.

**North Carolina State University** • Master of Science in Computer Science: May 2016 • GPA: 3.87

- Received Master's degree en route during PhD studies.

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