

Tyler William Thomas

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Education

- University of North Carolina at Charlotte**
Master of Science in Information Technology (2015)
- University of North Carolina at Charlotte**
Bachelor of Arts in Software and Information Systems (2013)
Summa Cum Laude

Honors and Awards

- Graduate GPA** 4.0/4.0
Undergraduate GPA 3.943/4.0
Chancellor's List (2009—2013)
GAANN Fellowship Recipient (Fall 2014—Present)
President of Hexarity Computing Charity (Fall 2014—Present)
Vice President of Interact (Fall 2013—Fall 2014)
Student Marshal for UNCC (Spring 2012)

Research Experience

- University of North Carolina at Charlotte**
Research Assistant (Spring 2013—Present)
- Designed interface for application specific vulnerability detection
 - Assisted in the writing of research proposals
 - Explored use of interactive static analysis to teach security
 - Examined effect of contextualized real time android permission notifications
 - Studied social implications of expiring tweets and Facebook posts
 - Developed network-based Android software in Java

Teaching Experience

- University of North Carolina at Charlotte**
Instructor, ITIS 4166 Network Based Application Development (Spring 2016)
- Restructured course to focus on real-world priorities
 - Live coded applications during class
 - Created example applications for students
 - Created assignments and projects
 - Taught servlets, sessions, application-database interaction, databases, MVC, JSP,

- beans, AJAX, and web security
- Added workdays for increased student participation
- Delivered in-depth lectures
- Created many sets of slides
- Graded assignments
- Graded projects
- Met with students regularly
- Held office hours

Teaching Assistant, ITIS 2300 Web Application Development (Fall 2012—Fall 2015)

- Tutored students in Javascript, JQuery, HTML, and CSS
- Managed labs
- Developed Clicker Quizzes
- Delivered Guest Lectures
- Coordinated labs and grading with undergraduate TA's
- Graded Projects
- Graded Final Exam
- Held Office Hours

Teaching Assistant, ITIS 5221/4221 Secure Web Apps (Spring 2014)

- Tutored students in IT Security and Penetration Testing
- Managed labs
- Proctored exams
- Graded projects and homework

Other Professional Experience

Small Business Owner

Thomas Tech Support (2008—2012)

- Established licensed company, Thomas Tech Support, at age 17
- Provided IT services to the Gaston County government and various corporations
- Authored the interpreted language, Interp-L, for experimental purposes
- Deployed an Exchange server, web server, and datacenter
- Migrated cloud-based data
- Communicated technical problems and coordinated solutions
- Formulated hardware and software specifications based on business needs
- Designed company website and maintained business records
- Developed professional customer contact skills

Publications

T. Thomas, B. Chu, H. Lipford, J. Smith, and E. Murphy-Hill, “A study of interactive code annotation for access control vulnerabilities,” in *Proceedings of the 2015 IEEE Symposium on Visual Languages and Human-Centric Computing*, ser. VLHCC '15. Washington, DC, USA: IEEE Computer Society, 2015.

T. Thomas, “Exploring the Usability and Effectiveness of Interactive Annotation and Code Review for the Detection of Security Vulnerabilities” VLHCC '15 Graduate Consortium. Atlanta, GA USA 2015.

J. Zhu, B. Chu, H. Lipford, and **T. Thomas**, “Mitigating access control vulnerabilities through interactive static analysis,” in *ACM Symposium on Access Control Models and Technologies*. ACM, 2015.

Heather Lipford, **Tyler Thomas**, Bill Chu, and Emerson Murphy-Hill. 2014. Interactive Code Annotation for Security Vulnerability Detection. In *Proceedings of the 2014 ACM Workshop on Security Information Workers (SIW '14)*. ACM, New York, NY, USA, 17-22.

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