Matthew J Hruz
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Education

B.S. in Computer Science, University of Tulsa, Expected Graduation Date: May 2016
Minor in Mathematics
Cumulative GPA 3.14

Technical Skills

- **Security Software and Technologies:** Kali Linux, Metasploit Framework, Armitage, John the Ripper, Social Engineering Toolkit
- **Programming Languages:** Python, Java, Javascript, Bash Script, C/C++, SQL, LaTeX
- **Other Software and Technologies:** Server Virtualization, including VMWare and ESXi technologies, Linux, Bash, Git, Vim, Node.js runtime, Postgresql

Competitions and Extracurricular Activities

- **CCDC:** Competed in the 2015 Southwest Collegiate Cyber Defense Competition. Worked to secure Windows machines and broke into a Proxmox virtualization server without a password so it could be used during the competition. Finished in second place.
- **Capture The Flag:** Participating in the inaugural season of The University of Tulsa's CTF (security challenge competition) team. Already participated in the DefCon qualification round and PoliCTF, with plans to compete in more.
- **Competitive Programming:** Competed in the International Collegiate Programming Competition (ICPC) with a team of two other people and won second place in the preliminary scripting competition.
- **Leadership:** Served as the chapter President of the Special Interest Group for Computer Graphics (SIGGRAPH) at the University of Tulsa (Fall 2014 - Spring 2015). Formerly served as the founding Vice-President (Spring 2014).
- **Hackathons:** Participated in the 2014 Heartland Gaming Expo and the Fall 2013 ACM hackathon at the University of Tulsa. The 2-Dimensional game for the Gaming Expo was awarded "Best Graphics"

Work Experience

Software Engineering Intern: ABB Totalflow **June 2015 - Present**
Bartlesville, OK

- Working with the Software R&D team to create the next generation of *Totalflow* flow computers for the Upstream Oil and Gas Industry.
- Identified potential security risks as *Totalflow* prepares for the security risks associated with the internet-of-things.
- Provided feedback on planned security features to be implemented in next-generation products.
- Generated needed documentation on the current security design to the developers.
- Clarified relevant security concepts to the development team.

Researcher: Institute for Bioinformatics and Computational Biology **June 2014 - May 2015**
The University of Tulsa

- Envisioned, designed, and currently developing a web and mobile application for the Laureate Institute for Brain Research's study on Bipolar Disorder
- Collaborated with a team of two other developers to create a working web and mobile application with Phonegap
- Designed and implemented back-end services, written in Node.js using the Passport, Express, and pg node modules, with PostgreSQL as the back-end database