

Brenton M. McGrand

4131 Main St. Terre Haute, IN, 47803

Email: granowaj@rose-hulman.edu Phone: (507) DEV-JEDI

Website: AJGeek.com

Objective: Seeking Software Engineering internship

Education: **Bachelor of Science in Software Engineering and Computer Science** May 2020
Minors: Computational Science, Math GPA: 3.06
Rose-Hulman Institute of Technology, Terre Haute, IN

Relevant Courses: • *Formal Methods in Software Specification and Design* • *Design and Analysis of Algorithms* • *Software Quality Assurance* • *Hadoop – Distributed MapReduce processing*

Skills:

- Java, Python, C, Rust, SQL, JavaScript, MATLAB
- Git, SVN, and Piper
- Binary and firmware analysis using binutils and IDA

Internships: **Google – Los Angeles, CA** Summer 2018
Software Engineering Intern – Java, Python, Android, UX Prototyping

- Developed new advertising formats for YouTube on Android and iOS in Python and Java
- Enriched the interactions between advertisers, creators, and users
- Improved our possible team efficiency by a factor of 30 percent
- Assembled the new mission statement for our team

FTI Consulting, Washington, DC Summer 2017
Summer Games Intern – Python, Rust, Binary Analysis, Team Building

- Reverse engineered a router as a team of five through research and exploratory penetration testing
- Lead team through major penetration routes (API discovery, firmware exploits)
- Provided mentoring to effectively share experience with team members, improving overall team effectiveness

Projects: *Senior Project – PLC 2* 2018

- Designed and implemented a scalable, maintainable, and easily deployable grading system for the computer science department

School Project – Assembler (goo.gl/#####) – Java 2016

- Developed an assembler in Java for our team's processor.
- Took the initiative go beyond the project requirements by building a recursive descent parser.

School Project – Stratego Game (goo.gl/#####) – Java 2016

- Hands on experience with test-driven Java development in a team of four.
- Using Git for versioning, used software metrics, unit and integration tests, and code coverage to ensure quality in our software.

Activities: Open Mic Club – President 2017 - Present
ACM International Collegiate Programming Contest – Team member 2017