Andrew Fallin

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Education:

Washington State University: BS Computer Science – Software Engineering   Aug. 2015 – May 2019
Courses: Advanced Data Structures and Algorithm Analysis **|** Principles of Object-Oriented Programing **|** Design and Implementation of the MTX Operating System | Computer Networks | Computer Security | Introduction to Databases
Languages: C, Python, JavaScript, HTML, CSS, C++, Swift, C#, SQL

Experience:

Oak Ridge National Laboratory (JavaScript, HTML, and CSS)   June 2018 – Aug. 2018
Science Undergraduate Laboratory Intern-
- Developed web-based planning tools for the Neutron Residual Stress Mapping Facility (NRSF2)
- Estimate experiment's running time in order to get accurate data before performing the experiment
- The tools will drastically reduce how much time instrument scientists will spend planning experiments.

Projects:

Bullet Hell Game: (C#)   January 2018 – May 2018
- Created a bullet hell style shooter game utilizing OO programming techniques and patterns
- A team of 5 students and I used Factory pattern to create the bullets and the enemies
- Used Decorator to define the abilities of each of the enemies.

MTX File System: (C)   January 2018 – May 2018
- Designed and implemented an MTX File System on Ubuntu Linux with another student
- Used pointer and string manipulation to perform operations and navigate the file system
- Followed general Linux terminal commands to navigate the file system (ls, cd, mkdir, touch, etc.)

CASAS Smart-home Voice Control Module: (Python, Redis)   Aug. 2018 – May 2019
- Project Leader for designing a voice control system for the Center for Advanced Studies in Adaptive Systems (CASAS) Robot Activity Support (RAS) team
- Used Python to record and interpret user commands given to the system
- Commands were stored in a NoSQL Database Redis until ready to be sent to the CASAS' XMPP middleware
- Hardware: Raspberry Pi 3B+, USB speaker, LED Strip, and a conference microphone.

Organizations / Memberships:

- WSU Honors College
- WSU Climbing Team
- WSU Men's Rugby
- National Outdoor Leadership School Alumni (NOLS)