Neil Wilcoxson

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Education

BS in Computer Science | Baylor University | Waco, TX | graduation December 2019
- GPA: 3.68 (Major) | 3.55 (Overall)
- Notable Coursework
  - Data Structures
  - Algorithms
  - Software Engineering
  - Operating Systems
  - Networking
  - Computer Architecture
  - Database Design
  - Data Mining
  - Competitive Cybersecurity

Experience

Software Engineer Intern | Viasat | Germantown, MD | May 2019 - August 2019
Implemented centralized authentication and authorization solution for network management components
- Evaluated several possible solutions and reported feasibility details for each approach in a trade study
- Authored system and component level requirements along with supporting software design documentation
- Integrated legacy Java web applications (GWT, Tomcat) into authentication system to improve security
- Created a strategy for automated testing (Selenium) and manual testing to ensure reliability and compliance

Software Engineer Intern | Viasat | Carlsbad, CA | May 2018 - August 2018
Developed a testing and demonstration framework for Raspberry Pi based network acceleration prototypes
- Employed an Agile development method to efficiently implement and test new functionality
- Configured hardware to construct emulation environments for prototype demos (modems, routers, VPN, etc.)
- Strategically tested multiple software configurations to determine optimal defaults for release product
- Developed JavaFX (interface and logic) application to facilitate easy demonstration, test, and results analysis

Broadcast Video Producer | North Coast Church | Vista, CA | July 2013 - August 2017
Produced weekly live and pre-recorded video content for a large multi-site church
- Configured satellite equipment for live broadcast to 5 off-site venues with a total of over 10,000 viewers
- Installed, configured, and tested broadcast equipment (video adapters, encoders, modulators, and switchers)

Skills

- C, C++ (STL, Multithreading)
- Java (SE/EE, JUnit, Maven, Gradle)
- Linux (Red Hat, Bash)
- SQL (MySQL/MariaDB, Oracle)
- Version Control (Git, Perforce)
- Documentation/Requirements (Confluence, Jama, Jira)

Leadership

C4C (Computing for Compassion) | Secretary (2017 - Present)
- Developed various software solutions to facilitate organization and communication of local non-profits
- Hosted community outreach events to promote technology interest and education for people of all ages
- Coordinated volunteer scheduling, communication, and resources for annual hackathon

Baylor Driving Club | (2016 - Present)
- Designed directions, explained competition rules, and mentored new participants at multiple road rally events
- Organized member attendance of various external automotive events (Autocross, Cars and Coffee)

Achievements

President's Gold Scholarship | Baylor University

Eagle Scout Rank | Boy Scouts of America
- Created designs, planned, and led volunteers in a community service project totaling 150 volunteer hours
- Organized camping, hikes, meetings, and Patrol Leader Council meetings as Senior Patrol Leader (2+ years)