Noah Staveley

206-819-1494 | noahstaveley@gmail.com | https://www.linkedin.com/in/noah-staveley/

Technical Summary

Languages: Java, Python, C,C++, Bash Script, Verilog, SQL
Skills: Linux, Git, Docker, FPGA, RTOS

Relevant Courses: Embedded Systems, Data Structures and Parallelism, Systems Programming, Computer Networks, Operating Systems, Hardware/Software Interface, Digital Design, Computer Security

Education

University of Washington — Seattle, WA
Bachelor of Science in Computer Engineering. — *September 2020 – June 2022*

Shoreline Community College — Shoreline, WA
Associate in Computer and Electrical Engineering. GPA - 3.9 — *September 2018 – June 2020*

Projects

IOT Device | *Python, Embedded C, Flask, SQLite* | *code available on github* — Winter 2022

- This health monitoring system conducts a series of tests including an EMG test
- Users can login and view their test results on our website
  - Implemented with Python Flask, HTML, CSS, JS
- Wearable test sensors are connected to an STM32 ARM Cortex-M Microcontroller
  - Sensor data is transmitted to a Raspberry Pi through UART
- Sensor data is then stored and processed in a ThingSpeak database
- The backend of our website links ThingSpeak data to Users in a SQLite database

xk-OS | *C* | *code available upon request* — Winter 2022

- Primitive operating system designed to mimic early UNIX systems
- Implemented creation of file systems, inter-process communication and multi-processing
- Created a user interface shell, allows commands such as exec

Networking Projects | *Java, Python* | *code available upon request* — Autumn 2021

- Implemented a multi-threaded Web Server
- Created a client application that communicates with the server over UDP and TCP sockets
- Built simple networks using SDN primitives and OpenFlow protocol
- Implemented networks with nodes connected over both TCP Reno and TCP BBR connections
  - Generated graph visualizations to compare performance

Work Experience

Math and Computer Science Tutor — January 2019 – June 2020
Shoreline Community College — *Shoreline, WA*

- Worked closely with computer science students enrolled in introduction to programming.
- Debugged code written by students in Python and Java, provided feedback.
- Tutored students in algebra, pre-calculus and calculus.

Membership Engagement Representative — January 2017 – April 2020
Dale Turner YMCA — *Shoreline, WA*

- Created a welcoming environment by greeting and engaging with patrons.
- Resolved a myriad of membership issues, answered and directed phone inquires.
- Sold memberships, conducted facility tours, enrolled members in classes, programs and camps.
- Coordinated with other departments in order to ensure complete member satisfaction.