

# Noah Staveley

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## TECHNICAL SUMMARY

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**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

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### University of Washington

*Bachelor of Science in Computer Engineering.*

Seattle, WA

*September 2020 – June 2022*

### Shoreline Community College

*Associate in Computer and Electrical Engineering. GPA - 3.9*

Shoreline, WA

*September 2018 – June 2020*

## PROJECTS

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### 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 our 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

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### Math and Computer Science Tutor

*Shoreline Community College*

January 2019 – June 2020

*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

*Dale Turner YMCA*

January 2017 – April 2020

*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.