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Summary of Qualification

- Effective leadership skills as demonstrated in technical experience working with groups of people, leading projects, and organizing events.
- Strong firmware design and implementation skills utilizing Intel Quartus Prime, Modelsim, and FPGA Boards.
- **Programming Languages:** System Verilog/Verilog, Java, C, Python, Assembly, CSS, HTML
- **Software and Operating Systems:** Multisim, Visual Studio, Intellij, Virtual Machine, Intel Quartus Prime, LTspice
- **Domain Expertise:** Arduino, Oscilloscope, DMM, Power Supply, Function Generator, Spectrum Analyzer, FPGA

Education

UNIVERSITY OF WASHINGTON | SEATTLE, WA | ***EXPECTED GRADUATION: JUNE 2024***

Current Major: Electrical and Computer Engineer

- **Honors / Activities:** Dean's List, Batman's Kitchen, Code Spree, UDUB Hackathon, College of Engineering
- **Relevant Coursework:** Computer Programming 1 & 2, Hardware/Software Interface, System and Software Tools, Circuit Theory, Signal Processing, Data Structure and Algorithms, Digital Circuits and System, Exploring Device, Computer Architecture, Database Systems, Design of Digitial Circuits and System, Programming for Signals and Systems

Technical Experience

UW HACKATHON|ONLINE ***OCTOBER 2020 - NOVEMBER 2020***

- Brainstormed with three peers to create a solution to a real world problem (how to stabilize blue ozone layer with coding)
- Congregated with others in order to gather insight on critical data and factors to be taken in consideration
- Adapted to online environments through weekly zoom meetings and daily checkups during COVID outburst
- Presented our ideas and data set to entrepreneurial business leaders and judges

Husky Map ***SEPTEMBER 2022 - DECEMBER 2022***

An educational web app for mapping the world, searching for places, and navigating around Seattle. The app is designed to highlight 3 components: **Autocomplete**, **Priority Queues**, and **Shortest Paths**. Each of these components not only implement features in Husky Maps, but also implement 3 other socially-motivated applications of computing: social genomics, content moderation, and seam carving for content-aware image resizing.

- Worked in a group of three where communication and transparency were crucial in aligning our goals
- Experimented different algorithms such as Dijkstra's algorithm, Topological Sort and Dynamic Programming, leading up to 30-50% runtime efficiency
- Preceded with affordance analysis, taking in account of related and unrelated factors that could affect our data structures, making sure stakeholders and consumers are satisfied with the impacts of our algorithm
- Used industry's standards such as dependency injections and mocking to test codes

Multimeter Design| ORGANIZER ***SEPTEMBER 2022 - DECEMBER 2022***

- PCB Design experience with EasyEDA, ensuring efficient routing between electrical components
- Used arduino code and soldering skill to establish functions of multimeter (current and voltage readings)
- Kept detailed explanation and images of PCB with GitHub and its functions