Alexander Vuu

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OBJECTIVE

A Computer Engineering internship where I can apply concepts from my education and extracurricular projects to collaborate with both technical and non-technical business stakeholders to apply analytic and machine learning techniques to solve business problems

EDUCATION

University of Washington Seattle | Seattle, WA   **September 2022 - June 2026**

Bachelor of Science in Electrical and Computer Engineering   **GPA: 3.6**

UW Academy Early Entrance Program | September, 2022

SKILLS

Programming Languages: Python, **Bash**, Java, C++, Bash, HTML, CSS, JavaScript

Embedded Systems Experiences: Raspberry Pi, Arduino

3D modeling: Blender, SolidWorks

Hardware: Soldering, Power Tools, Laser Engraver

Mac/PC Applications: Office 365 Suite (Word, Excel, Teams, Outlook, and Powerpoint)

PROJECTS

UW Indoor Farm's Club Website   **February 2023 - Present**

- Developed multimedia informational website hosted using a Raspberry Pi and Nginx web server
- Programmed built-in Livestream functions to view plants grow in real time
- Collect and Interpret Data to analyze trends in pH and electrical conductivity of water levels in our nutrient solution
- Employed open-source software to enhance website functionality

Custom Made Smart Home Devices   **February 2021 - December 2023**

- Utilized Amazon Alexa technology to create my personalized smart home appliances
- Developed voice controlled curtains, lights, and a self-adjusting watering system
- Understand online documentation to ensure devices meet electrical requirements
- Created a wiring diagram to illustrate my ideas to peers

YouTube to MP3/MP4 converter   **October 2023 - November 2023**

- Programmed a YouTube link to MP3/MP4 downloader
- Utilized Python libraries to improve coding structures

3D modeled and handcrafted video game items   **September 2022 - October 2023**

- Created custom-made 3D models of in-game weapons
- Opened a MakerFair stand where I sold small in-game items

WORK EXPERIENCE/VOLUNTEER WORK

Research Assistant, WA *Research in Superconductors and Vortices*   **January 2024–Present**

- Collaborated with team members to record magnetivity and creep data for $YBa_2Cu_3O_7$ samples
- Provided weekly presentations to notify team of recent activity
- Manages multiple tasks, prioritize deadlines, and ensure orderly execution of experimental protocols in a fast-paced environment

Hydroponics Club, **WA** *Automation Lead & Website Director, University of Washington*   **December 2022–Present**

- Planned weekly meetings with the automation team, to cover tasks to optimize plant growth
- Gathered requirements, created a design document, and designed a user-friendly website: http://www.projectif.us
- Collaborated with team members to continuously enhance the website throughout the academic year
- Presented the club board with a cost-saving alternative website solution, saving the club $200 annually

Seattle GiveCamp, WA *Software Engineer volunteer at Microsoft*   **October 2023**

- A hackathon to create web, desktop and mobile software for Seattle-area non-profit organizations
- Provided our non-profit, 'Skate Like a Girl,' with a revised website and SEO assistance
- Worked closely with a team of software engineers on the Microsoft campus