Alexander Vuu

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EDUCATION

University of Washington Seattle | Seattle, WA June 2026   UW GPA: 3.6
- Pursuing a Bachelor of Science in Electrical and Computer Engineering
- UW Acadmey Early Enterence Program | Age 16 | September 7th, 2022

JOB RELATED SKILLS

- Programming Languages: C++, Java, Python, Bash, HTML, CSS, JavaScript
- Embedded Systems Experiences: Raspberry Pi, Arduino
- 3D modeling software: Blender, SolidWorks, Rhinoceros, Fusion 360
- Hardware: Soldering, Power Tools, Laser Engraver
- Video Editing: iMovie, Pixelmator Pro; YouTube Channel: The LegoSmith | HocADoo

PROJECTS

- Project IF's Club Website (In-Progress) – February 2023 - Present
  - Developed multimedia informational website hosted using a Raspberry Pi
  - Programmed Built-In Livestream functions to view plants grow in real-time
  - Analyzed the current total nutrient solution and PH levels of the current water flow
- Youtube to mp3/mp4 converter – October 2023 - November 2023
  - Programmed a YouTube link to mp3/mp4 downloader
  - Utilize Python libraries to improve coding structures
- 3D model and handmake video game items – September 2022 - October 2023
  - Created custom-made 3D models of in-game weapons
  - Printed and Spray Painted a real-life model
  - Opened a MakerFair stand where I sold small in-game items
- Custom Made Smart Home Devices – February 2021 - August 2021
  - Utilizing Amazon Alexa technology to create my personal smart home appliances
  - Developed voice-controlled curtains, lights, and a self-adjusting watering system

WORK EXPERIENCE/VOLUNTEER WORK

Hydroponics Club, **WA** *Website Director & Creator, University of Washington* **December 2022–Present**
- Created Base Club Website, with 24/7 Farm Livestream Camera, with in-website smart plug control
- Teaches backend website development to the automation team every week
- View Website: http://67.168.163.172/index.html

Seattle Givecamp, WA *Software volunteer at Microsoft* **October 13-15th, 2023**
- 3-Day hackathon to create web, desktop, and mobile software for Seattle-area non-profits
- Provided our non-profit "Slake Like a Girl" a revised website, and SEO assistance
- Worked closely with a team of software engineers on the Microsoft campus

Pedalheads, Edmonds, WA *Bike Instructor at Edmonds* **June 2021 – September 2021**
- Taught over 120 kids ages 2-12 how to bike and help advanced cyclist enhance their biking skills
- Ability to prioritize, organize, and plan the day for my class of 5-10 students
- Developed interpersonal skills with a passion for customer service and fostering relationships with students, peers, and adults