

Jie Sen Huang

Software Engineer

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Technical Skills

Languages	Python, JavaScript, Typescript, HTML/CSS, Java
Technologies	Git/Github, React, Firebase, Vue, NextJS, Docker, Vercel, AWS EC2/S2/IoT Core, SQL, NoSQL (MongoDB), and LLMs

Education/Certificates

Bachelors (BS) in Computer Science w/ Minor in Mathematics

Washington State University Vancouver (WSUV)

Aug 2019 - Dec 2024

Vancouver, WA

Experience

Student Software Engineer

Hewlett-Packard (HP)

Aug 2023 - May 2024

Vancouver, WA

- Collaborated within a team of 4 to develop and deploy full-stack, Printer Dashboard on **AWS**, **MongoDB Atlas**, **Github/Github Actions**, and **Vercel** in an enviroment of **Java**, **Vue**, **JavaScript/TypeScript**, and **Docker**.
- Integrated batched KPI processing into an existing **Java Spring** backend, resulting in reduced resource utilization by 15%.
- Extended **RESTful API** service capabilities by implementing new endpoints in a Java Spring backend, ensuring alignment with predefined functionality and **XML** schema specifications.
- Implemented **Docker** to containerize existing backend services, ensuring environment consistency and reducing deployment times, while laying the groundwork to simplify the existing **CI/CD** pipeline.
- Engineered a system of scheduled **Cron Jobs** in a Linux enviroment on **AWS EC2** instances to automate **SSL/TLS** certificate renewals; improving site reliability by ensuring continuous secure connections without downtime.
- Initiated project workflow by coordinating tasks and objectives among team members, enhancing efficiency through **AGILE/Sprint** methodologies that enabled continuous feedback cycles and minimized development time.
- Developed modular front-end **Vue** components for frontend allowing for effective reuse, enhancing the consistency of **UI/UX** while reducing future development time.

Projects

Musician Note Detection App

Washington State University

Aug 2022 - May 2023

Vancouver, WA

- Coordinated development efforts as a part of a cross-functional, six-member team for an advanced web app built on the **FERN (Firebase, Express, React, Node.js)** framework; facilitating real-time musical feedback on note accuracy and intensity for musicians leveraging embedded microphones.
- Documentated detailed specifications guiding team members through complex integration tasks surrounding personal account functionalities; increased efficiency leading to faster deployment cycles by approximately four hours per week throughout development sprints.
- Designed website **UX** flows, iterated based on feedback, and implemented organized **CSS** styling to streamline front-end development and ensure consistency in design language.

Language Typing Project

Washington State University

May 2024 - Dec 2024

Vancouver, WA

- Built an **AI LLM** based language translation typing web app using Facebook's Llama Models, **Flask**, **React**, **Javascript/Typescript**, and **Node.js** to help language enthusiasts learn a second language and expand their vocab using spaced repetition learning.
- Integrated **CI/CD** pipeline through **Github Actions** to perform **component/unit testing** using **JUnit** and **Jest**, automateing deployment cycles while ensuring reliability.
- Developed response validation flow to ensure generated values from LLM adhere to predefined schema in order to order to maintain service functionality of 99.96%.