

Yu Hao Wong

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EDUCATION

University of Washington

Bachelors of Science in Computer Science - GPA 3.85

Seattle, WA

Sept. 2020 – Jun. 2024

Relevant Coursework

Distributed Systems | Systems Programming | Artificial Intelligence | Computer Vision | Human-Computer Interaction

EXPERIENCE

HubSpot

Software Engineer Co-op

Sept. 2023 – Dec. 2023

Cambridge, MA

- Developing platform paywall and monetization UI functionality to support in-app customer buying experiences

Amazon

Software Development Engineer Intern

Jun. 2023 – Sept. 2023

Bellevue, WA

- Refactored internal repository service to support high-throughput operations exceeding **100,000 requests/month**
- Designed event-driven Java API with AWS Lambda to replace deprecated script, reducing average request time by **3x**
- Developed React/TypeScript application for non-technical operators, saving **100 hrs/mo.** of manual auditing effort
- Owned full-coverage unit and integration testing of service, resulting in **30%** reduction in CI/CD errors and tickets

Oracle

Software Engineer Intern

Jun. 2022 – Sept. 2022

Seattle, WA

- Developed backend Java service to monitor status of bare-metal server provisioning, saving **40 hr/wk.** of log analysis
- Improved API latency and interface rendering times by a factor of **2x** on the server-health monitoring system
- Improved uptime and information-density of the React dashboard used by customers in **40+ cloud regions**
- Planned and executed dependency migration roadmap for **2** internal services to address deprecated packages

Interactive Data Lab - UW CSE

Undergraduate Research Assistant

Nov. 2022 – Jun. 2023

Seattle, WA

- Designed cross-browser web extension to integrate custom devtool runtimes into external websites like ObservableHQ
- Researched and developed performance improvements to the in-house prototype testbed in React/TypeScript
- Collaborated with research partners to identify pain-points and solutions within textual programming contexts
- Proposed a cross-language specification for third-party applications for rapid and interactive plugin development

Cledge.org - Microsoft for Startups

Software Engineer Lead

Jul. 2021 - Oct. 2021

Seattle, WA

- Spearheaded the frontend team of **3 devs** to build out MVP platform in **3 months.**, growing **500 users/mo.**
- Led Azure tech-stack migration to resolve tech-debt, restoring deliverable timelines and avoiding projected **6mo. delay.**
- Designed and integrated API specification for in-house college counseling Large Language Model built on **GPT3**
- Architected common component library and frontend runbook to maintain platform consistency and performance

Memo Agility Consulting

Software Engineer Intern

Sept. 2020 – Mar. 2021

Kuala Lumpur, Malaysia

- Independently developed React website with Google Analytics and SSR, increasing engagement by **2.5x**
- Implemented an **SEO-first GraphQL** content-management system, improving publishing time by **5 hr/content**
- Achieved **99.99% uptime** with CI/CD workflows and automatic performance and availability monitoring using Vercel
- Documented code base, hosting infrastructure and content-management guides for **20+** non-technical stakeholders

PROJECTS

MOMO Bill Splitting | 2nd Place Finalist at DubHacks 2022

Oct. 2022

- Developed OCR pipeline and preprocessing with OpenCV and Tesseract on a Flask server
- Containerized application with Docker for scalable hosting on AWS Lightsail instance
- Implemented **adaptive thresholding, canny edge detection** and **countour approximation**

TECHNICAL SKILLS

Languages: Java, JavaScript/TypeScript, Python, HTML/CSS, Dart, C++

Frameworks: React, NodeJS/Express, NextJS, Spring MVC, DropWizard, Flutter, Bootstrap, Flask, GraphQL

Tools: Git, Docker, AWS, NoSQL Databases (DynamoDB, MongoDB), Unit Testing (JUnit, Mockito, Jest, Cypress)