

Yu Hao Wong

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EDUCATION

University of Washington

Seattle, WA

Bachelor of Science in Computer Science - GPA 3.80

Sept. 2020 – June 2024

Relevant Coursework

Distributed Systems | Systems Programming | Artificial Intelligence | Human-Computer Interaction | Linear Algebra | Algorithms | Data Structures | Hardware & Software Interface | Statistics

EXPERIENCE

Software Engineer Intern

Jun. 2022 – Sept. 2022

Oracle Cloud Infrastructure

Seattle, WA

- Developed REST API endpoints for a novel cloud compute host provisioning service using Dropwizard
- Reduced existing API response and interface load times on the monitoring application by a factor of 2x
- Improved usability and information-density of the dashboard used by SDEs and SREs in 40+ cloud regions

Software Engineer Lead

Jul. 2021 - Oct. 2021

Cledge.org - Microsoft for Startups '21

Seattle, WA

- Spearheaded the frontend engineering team (3 developers) in an Agile development environment to build MVP
- Designed and implemented the web platform integrating in-house GPT3-assisted college counseling services
- Coordinated tech-stack migration to resolve tech-debt, maintaining accelerated deliverable timelines (3 mo.)

Software Engineer Intern

Sept. 2020 – Mar. 2021

Memo Agility Consulting

Kuala Lumpur, Malaysia

- Independently coordinated and delivered web platform according to external client constraints
- Implemented server-side rendering in React with a GraphQL content-management system
- Documented codebase, hosting infrastructure and content-management guides for non-technical stakeholders

Undergraduate Research Assistant

Nov. 2022 – Present

Paul G. Allen School of Computer Science - Uni. of Washington

Seattle, WA

- Research applications of composable interactive live programming supervised by Joshua Horowitz and Jeffrey Heer
- Explore domain-specific applications of modular, composable developer tools as a software engineering paradigm

Undergraduate Research Assistant

Mar. 2021 – Jun. 2021

Sensors, Energy and Automation Laboratory - Uni. of Washington

Seattle, WA

- Technical contributor on the ECoS Technical Writing Tool used by SEAL researchers and engineers
- Utilized unit testing to identify and resolve critical authentication errors on the client-side application
- Developed and documented API endpoints, integrating with the React web platform and Office365 Plugin

PROJECTS

MOMO Bill Splitting | *Python, Flask, React, JavaScript, ExpoJS*

Oct. 2022

- 2nd Place Finalist at DubHacks 2022 in the Connectivity Track
- Native mobile application integrating optical character recognition to solve common bill-splitting tasks

Multi-Paxos Distributed System | *Java*

Apr. 2022

- Distributed key-value store implementing architecture similar to Amazon DynamoDB or Google Spanner
- Implemented fault-tolerance protocols and multi-key parallel transactions on a sharded keyspace

333gle Search Engine | *C, C++, HTML, JavaScript, CSS*

Jun 2022

- Implemented memory managed data-structures from scratch to use in file crawling and indexing
- Utilized thread-based, concurrent networking to write HTTP protocols linking client and server applications

TECHNICAL SKILLS

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

Frameworks: React, Node.js, DropWizard, JUnit, Flutter, GatsbyJS, Bootstrap

Developer Tools: Git, GitHub, Bitbucket, GitLab, Docker, AWS Lightsail, Netlify, VS Code, PyCharm, IntelliJ