

Yichi Zhang

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Education

University of Washington

B.S IN INFORMATICS WITH SOFTWARE ENGINEERING SPECIALIZATION

Academic Honors: Dean's List (2018 – Present)

Seattle, WA

Aug 2018 - Dec 2022

GPA: 3.85/4.0

Skills

Programming: Java, JavaScript (ES6), TypeScript, HTML5, CSS, SCSS, Ruby, Kotlin, Python, GO
Frameworks and libraries: React.js, Redux, Vue, Node.js, Express.js, Jest.js, Bootstrap, Material-UI
Databases and Tools: MySQL, MongoDB, Redis, Firebase, AWS, Docker

Work Experience

Meituan

Beijing, China

FULL STACK SOFTWARE ENGINEER INTERN

May 2021 - July 2021

- Developed an e-commerce web app with **REACT AND TYPESCRIPT** in a agile environment with a team of 5
- Consolidated user input validation for user authentication in 5 webpages, improved UI error handling by **25%**
- Created and tested a **RESTFUL API** that notify user email and SMS message when their saved items are restocked
- Tested webpages in various browsers and devices to ensure **CROSS-BROWSER COMPATIBILITY** and mobile responsiveness
- Achieved recognition from project leader. The final outcome has over **A MILLION ACTIVE USERS** in China

UW Center for an Informed Public

Seattle, WA

FULL STACK SOFTWARE ENGINEER INTERN

July. 2021 - Sept. 2021

- Maintained an educational escape room web app built with **REACT AND GO** in a team of 4
- Engineered **25 UI FEATURES**, architected customized UI components adapted from React Material UI (MUI) library
- Translated **30 DESIGN WIREFRAMES** into reusable and maintainable web pages through code reviews
- Improved app performance for **40%** by using dynamic import, lazy loading, and react memo
- The final outcome is actively used by teachers and librarians, achieving a total traffic of **2,000** users

UW Information School

Seattle, WA

UNDERGRADUATE TEACHING ASSISTANT

Jun. 2021 - Jun. 2022

- Coached **200** undergraduate students on web-developments concepts, tools, and best practices
- Mentored **60** course projects by providing constructive feedback, hands-on debugging assistance, and accessibility suggestions
- Designed **15 HOURS** of teaching materials and live demos for weekly lab session to promote student learning
- Updated, patched, and debugged a testing infrastructure built with **JEST.JS** for grading purpose

Projects

Distributed Key-Value Store Server

Seattle, WA

JAVA, JUNIT

Mar. 2022 - Jun. 2022

- Designed and engineered a distributed system with replica servers that handled **NETWORK FAILURE AND SERVER OUTAGE**
- Using Sharding and consistent hashing technique to enable flexible server group re-configuration, achieving **HIGH SCALABILITY**
- Debugged distributed system server by working with unit tests, logs, failure scenarios, and referring research paper
- Optimized performance and reliability by **20%** by using cache and implementing garbage collection
- Researched industrial distributed system designs such as **GOOGLE'S GFS** and **AMAZON'S DYNAMO DB** to improve performance

Shelp

Seattle, WA

REACT.JS, CSS, AWS

Jan. 2022 - Jun. 2022

- Researched, Designed, and implemented a yelp-like product that shows reviews of **100** homeless shelters
- Architected **REUSABLE AND MAINTAINABLE** React component API such as Forms, Carousel, Pop-up window, and Cards
- Outperformed **100+ TEAMS** and attained Capstone project award finalist

Visual World Database Annotation Tool

Seattle, WA

JAVASCRIPT, BOOTSTRAP, PYTHON, NODE.JS

Mar. 2022 - Jun. 2022

- Implemented a front-end annotation tool for a research lab under University of Washington CS department
- Designed, prototyped, and developed the product by working with PHD students and identify key user workflow
- Achieved recognition from the **DIRECTOR OF UW CS DEPARTMENT** and the product is actively used by students and researchers