

ZHAOZHAN HUANG

Boston, MA

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EDUCATION

Boston University

MS, Computer Science (GPA: 3.7)

Sep 2023 – Jan 2025

Boston, MA

Sun Yat-sen University

BS, Information and Computing Science

Sep 2019 – June 2023

Guangdong, China

TECHNICAL SKILLS

Languages: C, C++, JavaScript, TypeScript, Python, Kotlin, Golang, HTML/CSS, SQL

Frameworks/Packages: React.js, Express.js, Next.js, Android Development, Tailwind, Prisma, NumPy, Pandas

Technologies/Developer Tools: Git/GitHub, MySQL, MongoDB, Firebase, Azure, Docker, Linux/Bash Shell, Android Studio, Figma, Postman

EXPERIENCE

BU Spark! Software Engineer practicum | Next.js, TypeScript, PostgreSQL

Feb 2024 - May 2024

Part time

Boston, MA

- Led the development team of **BadLandLords**, a pioneering platform aimed at enhancing transparency, empowering residents to identify non-compliant landlords through data-driven insights and innovative mapping functionalities.
- Created a frontend with **Next.js**. Spearheaded the transition of BadLandLords project to **TypeScript** and revamped UI design. Utilized **Git**, **GitHub**, and **Trello** for efficient version control and collaboration.
- Implemented a responsive map using **Mapbox GL JS** to pinpoint landlord locations, enhancing user interaction and accessibility. Employed **Tailwind CSS** to accurately translate UX/UI designs from **Figma** into functional user interfaces.

PROJECTS

MapReduce System | Go, Shell

Jan 2024

- Engineered a simplified **MapReduce** framework leveraging mutexes, channels, and condition variables within **Goroutines** to ensure efficient parallel computation and robust fault tolerance.
- Architected and executed a fault-tolerant system for both Map and Reduce phases, incorporating a coordinator-worker model for task reassignment in the event of node failures, maximizing data processing efficiency and system scalability.

Never Late | Android, Kotlin, JUnit

Sep 2023

- Led a team of four developers using **GitHub** to create an Android app with multiple fragments. Leveraged **Firebase** for database and backend services.
- Engineered real-time data fetching with **Kotlin coroutines** and integrated **Google Maps SDK** for map functionalities. Enhanced user experience by adopting **Material Design Components** for a sleek, intuitive interface.

Reading List Web App | React, JavaScript, Express, MongoDB, Git

Oct 2023

- Developed a comprehensive full-stack application, integrating **React** and **Redux Toolkit** for front-end state management, with **Express** and **MongoDB Atlas** for scalable REST API backend services.
- Automated deployment and scaling through **CI/CD pipelines** to **Azure App Service**, employing **GitHub Actions** to ensure continuous availability and scalability.

OTHERS

- Microsoft Certified: Azure Fundamentals, Certification, 2023