ZHAOZHAN HUANG

Boston MA

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EDUCATION

Boston University **09/2023 – 12/2024**
MS, Computer Science (GPA: 3.68) *Boston, MA*

Sun Yat-sen University **09/2019 – 06/2023**
BS, Information and Computing Science *Guangdong, China*

TECHNICAL SKILLS

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

Frameworks/Packages: React.js, Next.js, Express.js, Flutter, Android SDK, Tailwind CSS, Unity

Technologies/Developer Tools: MySQL, PostgreSQL, MongoDB, Prisma, Drizzle, Git/GitHub, Github Action, Firebase, Microsoft Azure, Google Cloud Platform, Vercel, Linux, Docker, Webpack, Android Studio, Figma, Postman

INTERN EXPERIENCE

Yiddishland California | *Flutter, Dart, Firebase* **May - Aug 2024 (ongoing)**
App Development Intern *Remote*
- Developed a cross-platform social app using **Flutter** for the frontend and **Firebase** for the backend,
- Integrated **Firebase Authentication** using **FlutterFire**, enhancing security and simplifying login processes.

Boston University Spark! | *Next.js, TypeScript, Tailwind CSS, Python* **Feb - May 2024**
Software Engineering Practicum *Boston*
- Developed a frontend to share property violation data using **Mapbox GL JS**. Enhanced the performance by optimizing database query and implementing caching strategies, reducing load time by 30%.
- Employed **Tailwind CSS** to accurately translate UX/UI designs from **Figma** into functional user interfaces.
- Collaborated with an **Agile** team using **Git**, **GitHub**, and **Trello** for efficient version control and project management.

VOLUNTEER EXPERIENCE

STEM for Others | *Next.js, TypeScript, Tailwind CSS* **2024**
- Created a comprehensive digital learning platform, making free STEM education accessible to over 200 students.
- Implemented a **Next.js** frontend with **App Router** and managed user permissions with **Clerk** and **server components**.
- Developed an admin page using **React-Admin** and optimized database query in **Drizzle**, increasing the efficiency of the curriculum team by 50%.

PROJECTS

MapReduce System | *Distributed System, Go, Shell* **Dec 2023**
- Engineered a simplified **MapReduce** system leveraging **Goroutines** to ensure efficient parallel computation.
- Architected a fault-tolerant system for both Map and Reduce phases, utilizing **RPC** to incorporate a coordinator-worker model to handle task reassignment in the event of node failures.

NeverLate | *Android, Kotlin, Android XML* **Sep 2023**
- Developed an Android app with multiple fragments, leveraging **Firebase** and **Cloud Firestore** for backend services.
- Engineered real-time data fetching with **Kotlin coroutines** and integrated **Google Maps SDK** for map functionalities.

ReadingList | *React, CRA, Express, MongoDB, Node.js* **June 2023**
- Developed a full-stack application with **React** and **Redux Toolkit** for state management. Implemented a backend using **Express** and **MongoDB** to providing **RESTful API** services for **CRUD** operations.
- Streamlined the deployment process with **CI/CD pipelines**, deploying to **Azure App Service** via **GitHub Actions**..

CERTIFICATION

- Microsoft Certified: Azure Fundamentals