

Maoqiang Zheng

michael.zheng.usa@gmail.com | 929-659-1106

Work Authorization: U.S. Permanent Resident (Green Card)

<https://soymikey.github.io/developerFolio> | <https://www.youtube.com/@ByteGen>

Skills

Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3

Frontend Ecosystem: React, Next.js, Redux, TanStack Query, Immer, Electron

Backend & API: Node.js, Nest.js, PostgreSQL, Prisma ORM

DevOps & Performance: Docker, GitHub Actions, Jest

Experience

Software Engineer, Boostcamp – New York, NY (Remote)

Feb 2023 – Dec 2025

- **Spearheaded a performance overhaul using Next.js (App Router)** and advanced rendering strategies (ISR/SSR), improving **Core Web Vitals** by 80% and boosting Lighthouse scores from 50 to 95.
- **Architected a complex Workout Creator and Management system**, leveraging **Immer** to manage deeply nested immutable states, ensuring bug-free data manipulation and high-performance UI updates
- **Scaled user subscription and authentication modules to support 500,000+ users**, architecting **Stripe Webhook** event handlers on the backend to ensure robust payment synchronization and subscription lifecycle management

Software Engineer, Compass – New York, NY (Remote)

Dec 2021 – Jan 2023

- **Scaled the core property listing infrastructure** to support **18% of the US residential real estate sales volume**, ensuring high availability and seamless UX for the nation's top-performing agent teams
- **Engineered a bi-directional Data Layer and BFF service** via the Adapter Pattern to normalize 500+ disparate MLS data sources, decoupling UI components from backend schema shifts and reducing feature time-to-market by 50%
- **Optimized search interface performance** by re-architecting complex state management with Redux and TanStack Query, reducing data synchronization latency by 40% across dynamic filter conditions
- **Architected a comprehensive testing strategy (Unit/Integration)**, increasing code coverage and reducing post-release defects by 20% within a fast-paced, remote collaborative environment

Software Engineer (Frontend), Zixun – China

Nov 2018 – Dec 2021

- **Developed and optimized** a cross-platform desktop accelerator using Electron and React, ensuring consistent performance and UI/UX across **Windows and macOS** for a global user base of 800,000+
- **Integrated C++ dynamic libraries via node-ffi** and managed complex **Node.js child processes** to execute high-performance network acceleration logic and **UDP services**
- **Engineered secure IPC protocols and hardened Electron application security** via V8 bytecode compilation, obfuscation, and hardened runtime configurations to safeguard proprietary algorithms and sensitive user data

Projects

Contract Assistant | React Native, AI, Supabase

<https://contractassistant.migaox.com>

- **Developed a cross-platform mobile application** using **React Native** that leverages AI to analyze legal documents and provide actionable contract advice, enhancing user decision-making efficiency
- **Architected the backend and monetization infrastructure** by integrating **Supabase** for secure authentication/database management and **RevenueCat** for in-app purchase handling and payment lifecycle tracking

AI Shortcut Assistant | Go, Wails, React

<https://github.com/soymikey/PopAsk>

- **Engineered a cross-platform desktop utility** using **Wails and Go**, enabling users to execute AI prompts on highlighted text via globally registered keyboard shortcuts
- **Implemented a high-performance backend logic** in Go to manage system-level event listeners and asynchronous AI API integrations, ensuring minimal latency in response generation

Education

Udacity - Front-End Web Nanodegree

June 2018