

# Mengtian Chen

📞 2136914098    ✉ e-mail    🌐 website

## Skills

- **Programming Languages** Python, Java, C/C++ , C#, Go, Unity, SQL, JavaScript, TypeScript, HTML5/CSS3
- **Software & Frameworks** React.js, Next.js, RESTful API, Spring Boot, Node.js, Express.js, Angular, Flask, Django, React Native,.NET
- **Databases** MySQL, PostgreSQL,MongoDB, DynamoDB
- **Tools** Git, Docker, Jenkins, Kubernetes, AWS (EC2, S3, Lambda), Jira, Linux, CMake, Android Studio, Xcode, Visual Studio, Bash

## Experience

### One Community Global,Inc

Feb 2024 – Jun 2024

software engineer

San Gabriel, CA

- Contributed to the development of a collaborative platform used by over 5,000 monthly active users, enabling employees to track work hours and managers to oversee projects efficiently.
- Integrated real-time work hour tracking and visualization features into the workforce management system using **React.js** and **Chart.js**, improving reporting efficiency and user satisfaction by enabling dynamic, interactive dashboards.
- Optimized **role-based access control (RBAC)** by refining backend middleware in **Node.js** and **Express.js**, reducing API latency by 20% and improving system security.
- Improved user engagement by adding real-time status indicators in the team communication module using **WebSocket** and **Socket.IO**, enabling instant communication for 500+ active users.
- Optimized **MongoDB** query logic and index design, reducing search response time from 500ms to under 300ms for 1,000+ daily queries, enhancing user experience in retrieving critical reports.
- Strengthened **API testing** using Postman to achieve 95% test coverage, and conducted end-to-end testing with Jest and Cypress, ensuring robust and scalable functionality.

### StartNation,Inc

Feb 2023 – Oct 2023

Software Engineer

Livermore, CA

- Developed and maintained the desktop website and mobile application for connecting investors, companies, and talent, focusing on performance, scalability, and user experience.
- Built dynamic, responsive components for company recruitment posts with **Context API**, **Redux**, and **React Hooks**, supporting multimedia content and scalable state management.
- Enhanced the **caching mechanism** for hot job data by optimizing **Redis** key design and **TTL** strategies, increasing cache hit rate by 30% and reducing average response time by 20%.
- Optimized job search functionality by implementing **hash-based data structures** for job title lookups and multi-condition queries, reducing query time by 30%.
- Enhanced code stability and performance by integrating static code analysis and automated testing into the **CI/CD** pipeline, improving algorithm efficiency by 20% and ensuring stable processing of over 20,000 daily matching requests under high concurrency.
- Utilized **Jira** for task management, sprint planning, and progress tracking, ensuring efficient workflows and on-time feature deliveries.

### Abao Shuo,Inc

Jan 2022 – Dec 2022

Software Engineer

Shanghai, CN

- Engineered a **microservice** using **Java** and **Spring Boot** to handle multi-channel notifications (email and app notifications), increasing user engagement by 25% through timely reminders.
- Designed and documented **RESTful APIs** with Swagger, ensuring seamless service interactions within a microservices architecture, enabling reliable scheduling and cancellation of notifications.
- Containerized the application with **Docker** and orchestrated deployments using **Kubernetes**, reducing deployment times by 40% and enhancing scalability in production.
- Analyzed user feedback and performance metrics, driving iterative improvements in functionality and reliability within an **Agile** framework.
- Collaborated with cross-functional teams, including product managers and UI/UX designers, to refine user-centric features and ensure alignment with project goals.

## Education

### University of Southern California

Jan 2023 - Dec 2024

Master of Science in Computer Science

Los Angeles, CA

### Xidian University

Sep 2018 - July 2022

Bachelor of Science in Computer Science