

MENGtian CHEN

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EDUCATION

University of Southern California	Los Angeles, California
Master of Science in Computer Science, GPA 3.61	January 2023-December 2024
<ul style="list-style-type: none">Relevant Coursework: Analysis of Algorithms, Database Systems, Web Technologies, Advanced Mobile Devices and Games, Foundations of Artificial Intelligence, Computer Networks	
Xidian University	Shaanxi, China
Bachelor of Science in Computer Science, GPA 3.90	September 2018-July 2022

TECHNICAL SKILLS

Programming languages: Python, Java, C/C++, C#, Go, Unity, SQL, JavaScript, TypeScript, HTML5/CSS3, Matlab
Software & Frameworks: React.js, Next.js, RESTful API, SpringBoot, Node.js, Express.js, Angular, Flask, Django, React Native, ASP.Net
Tools: Git, Docker, Jenkins, Kubernetes, AWS (EC2, S3, Lambda), Jira, Linux, Cmake, Android Studio, Xcode, Visual Studio, Bash
Databases: MySQL, MongoDB

WORK EXPERIENCE

StartNation, Inc	Livermore, California
Software Developer Intern	February 2024-Present
<ul style="list-style-type: none">Develop and maintain the frontend of an equity-driven platform’s desktop website and mobile app, focusing on user experience, performance, and scalable architecture.Developed modular, reusable React components with centralized state management, conditional rendering, and React Hooks to ensure a reliable and responsive user experience, enhancing the maintainability and scalability of our codebase.Achieved 70% TypeScript coverage to guarantee type safety across the codebase. This initiative proactively identified and resolved potential issues, substantially improving code quality and boosting the long-term stability of application performance.Deployed the application on Kubernetes clusters, and implemented CI/CD pipelines with GitHub Actions to automate testing, building, and deployment, resulting in a 40% reduction in deployment times and minimizing human errors.Utilized Jira for task management, sprint planning, and progress tracking, ensuring efficient workflows and on-time feature deliveries.	
One Community Global	San Gabriel, California
Software Developer Intern	February 2024-July 2024
<ul style="list-style-type: none">Developed a platform enabling workforce management, project oversight, and collaborative decision-making, integrated through RESTful APIs with React for an intuitive user experience, serving over 5,000 monthly users and managing more than 100,000 database records.Implemented server-side logic using Node.js and Express.js, enhancing data interaction with MongoDB databases.Converted class components to function components, integrating React Hooks for state and lifecycle management, and restructured rendering and props for enhanced code efficiency.Utilized Postman for API testing and Jest for Javascript testing, ensuring robust functionality through detailed PR review.	
Abao Shuo	Shanghai, China
Software Developer	January 2022-Dec 2022
<ul style="list-style-type: none">Developed a robust microservice using Java and SpringBoot to handle multi-channel notifications (email and app notifications) for a to-do application, enhancing user engagement by ensuring timely reminders.Designed and implemented RESTful APIs to facilitate seamless service interactions within a microservices architecture, enabling reliable scheduling and cancellation of notifications.Containerized the application with Docker, greatly improving the deployment process and operational scalability in a production environment.Actively participated in continuous development cycles within an Agile framework, collaborating on iterative service improvements based on user feedback and detailed performance analytics.Documented all development processes and API endpoints meticulously, creating comprehensive guidelines that improved future maintenance and scalability. This effort led to a 30% increase in development efficiency in subsequent projects.	

ACADEMIC PROJECTS

Room Reservation System C++, TCP, UDP, Socket Programming, Network Security	January 2024-May 2024
<ul style="list-style-type: none">Developed a secure Room Reservation System with server-client interactions via TCP and inter-server communication using UDP.Implemented multi-phase authentication with dynamic encryption and character offset techniques for username and password security. Integrated real-time on-screen messaging for seamless user feedback, applied across 20+ scenarios.	