Mengzhu Ou

a1106983163@gmail.com | +1 706-741-8456

linkedin | github | portfolio

EDUCATION

Georgia Institute of Technology December 2024
Bachelor of Science in Computer Science, GPA 3.93 Atlanta, GA

EXPERIENCE

Walmart Global Tech June 2024 - August 2024
Software Engineer Intern Bentonville, AR
- Increased React.js development speed by 20% and achieved 85% test coverage through championing Test-Driven Development with Jest and Playwright and using CI-CD tool Looper for the in-house tool Demand Workspace.
- Improved feature change analysis by implementing critical demand scenarios and manual adjustments, enhancing user efficiency in data management by 50% and reducing server error by 30%.
- Contributed to project success by completing 15 assigned tickets and testing 12 items, achieving 26 story points ahead of schedule.

Travelers June 2023 - August 2023
Technology Leadership Development Program Hartford, CT
- Championed Test-Driven Development and CI-CD tool Jenkins to develop MergeMania using React.js, enhancing feature change analysis efficiency by 25%.
- Increased user interface satisfaction by 40% through implementing critical features, using user feedback and iterative testing.
- Achieved seamless integration and reduced development time by 30% by establishing 100% mock backend endpoints.

Southern Automation Logistics & Technology January 2022 - May 2022
Software Developer Intern Statesboro, GA
- Accelerated project completion by 5% by adopting agile and scrum methodologies in full-stack development with JavaScript, jQuery, HTML, CSS, and C#.
- Optimized SQL queries for "sort-calendar" task, updated procedures in SQL and Visual Studio databases, improving query performance by 15%.
- Demonstrated high productivity and focus, completing 40 assigned tasks and testing 20 items, contributing to project success ahead of schedule.

SOFTWARE PROJECT

Word Snake Game December 2023 – May 2024
- Developed an engaging user-friendly website application using React Typescript that allows users to play with English vocabularies through unique game rule, compete with others via Leaderboard, and share feedback.
- Integrated WordCloud library to observe input frequency from users worldwide.
- Utilized: React Typescript, Google Cloud Firestore, Local Persistent Data, Caching, Web Dev

15 Puzzle Game November 2023
- Crafted the application using React Typescript that allows users to play 15 Puzzle.
- Attracted over 1000 users globally and 130 users engaged with the Leaderboard feature.
- Utilized: React Typescript, Google Cloud Firestore, Web Dev

Database Management April 2023
- Served as a Project Manager and Software Developer for the Flight Database Management project, with a focus on efficient data storage and retrieval by leveraging MySQL stored procedures to optimize database operations and reduce complexity.
- Specialized in backend development (80%) for implementing RESTful APIs and contributed 30% of frontend code.
- Utilized: Java, React.js, MySQL, Postman, Web Dev

TECHNICAL SKILLS

Proficient	React.js	MongoDB	Java	JavaScript	SQL	Typescript	Python	C#	HTML	CSS	Tailwind CSS
Familiar	Node.js	Express.js	C++	C	jQuery	Bootstrap	Django	Ruby	Go	NoSQL	Vue.js
Technologies	Jira	Figma	AWS	Visual Studio Code	Git	Postman	Azure	Unity	Jupyter	Google Cloud Firestore