

MASON LIU

Software Engineer/Full-Stack Developer

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SKILLS

Java (Expert) ◊ C# (Intermediate) ◊ Python (Beginner) ◊ JavaScript (Beginner) ◊ C++ (Beginner) ◊ CSS (Intermediate) ◊ React (Intermediate) ◊ Git (Intermediate) ◊ Node.js (Beginner) ◊ MySQL (Intermediate) ◊ Flask (Beginner) ◊ Vite (Intermediate) ◊ Spring Boot (Intermediate) ◊ Apache Maven (Intermediate) ◊ Full-Stack Development (Intermediate) ◊ Data Structures & Algorithms (Expert) ◊ OOP (Expert) ◊ Backend Systems (Expert)

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

University of Texas at Dallas, GPA: 3.8

Aug 2025 - May 2028
Richardson, TX

HIGH SCHOOL DIPLOMA

Lebanon Trail High School, Magna Cum Laude

May 2025
Frisco, TX

- ◊ AP Computer Science A — 4
 - ◊ AP Computer Science Principles — 5
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PROJECTS

Soundborn (Unity RPG)

(C# ◊ Unity ◊ Game Systems Engineering)

November 2025

- ◊ Designed and implemented a custom turn-based battle engine from scratch, handling action sequencing, damage resolution, animations, and status effects.
- ◊ Wrote the entire game codebase in C#, managing 90+ scripts across combat systems, UI flow, character data, and state management, using clean object-oriented design to support future scalability.

GitHub Statistic Generator

(JavaScript ◊ GitHub API ◊ React ◊ Web APIs ◊ Redis ◊ Upstash ◊ Git)

September 2025

- ◊ Built a GitHub statistics generator that aggregates profile data via Web APIs, caches results with Redis, and creates optimized, SVG assets to display information through compression and preprocessing.
- ◊ Deployed a public web app enabling users to personalize and generate themed GitHub profile statistics; amassing 30+ GitHub stars on the repository.

JVM Custom Memory Arena

(Java ◊ Low-level Systems Design ◊ Git)

December 2025

- ◊ Developed a manual memory allocation arena in Java to manage object lifetimes against Java's innate tendency to garbage collect.
- ◊ Created all data structures from their rawest byte form, and benchmarked various allocation strategies and performance tradeoffs within the JVM, improving the runtime performance of large local projects by 33%.

GoFit! (Mobile Fitness App)

(Java ◊ Python ◊ React ◊ Google Maps API ◊ OpenAI API ◊ AI/ML ◊ MySQL ◊ Git)

August 2025

- ◊ Developed a cross-platform fitness application that tracks running routes using Google Maps API with real-time GPS integration: Achieved 95% accuracy in route tracking during testing; tested by 15+ peers.
 - ◊ Implemented automated testing frameworks that reduced bugs by 35%, improving overall product stability.
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EMPLOYMENT HISTORY

In-N-Out Burger

Tier III Associate

March 2025 - September 2025

- ◊ Promoted twice within 5 months for exceeding performance metrics and demonstrating strong adaptability.
- ◊ Balanced 26 hours/week of work while completing full-time CS coursework.
- ◊ Trained and onboarded new team members while maintaining accuracy in serving 150+ customers per hour in a high-volume environment.