

SHAWN ADAMS

Software Engineer

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PROFESSIONAL SUMMARY

Innovative software engineer with hands-on experience in full-stack development, embedded systems, game programming, and mobile applications. Demonstrated expertise in building interactive experiences and automating workflows through self-directed projects.

TECHNICAL SKILLS

Programming Languages: C, C++, C#, Python, JavaScript, TypeScript, SQL, HTML, CSS, Kotlin, Bash, PHP, Java

Frameworks & Libraries: React.js, Django, FastAPI, SDL2, ImGui

Tools & Technologies: Git, MongoDB, SQLite3, AWS, RESTful APIs, Microservices, JWT Authentication, Spring Boot

Development Practices: Agile/Scrum, Object-Oriented Programming, Test-Driven Development, CI/CD, System Design

Operating Systems: Linux/Unix, Windows

Certifications

Google IT Support Professional Certificate

Coursera — Issued June 2025

<https://coursera.org/share/d414e8f60874b0e040d972911fea9627>

Foundational C# Certification (in partnership with Microsoft)

freeCodeCamp — Issued June 2025

<https://www.freecodecamp.org/certification/OxKitKoi/foundational-c-sharp-with-microsoft>

TECHNICAL PROJECTS

2D RPG Game Engine | C++, SDL2

- Implemented advanced features including collision detection, NPC interaction systems with branching dialogue, and modular game state management
- Designed an efficient entity component system architecture enabling smooth gameplay and rapid feature iteration

- Live-coded development sessions on Twitch, demonstrating technical problem-solving in real-time

Microcontroller Command & Control System | C++, Python, ImGui

- Developed a comprehensive desktop application with ImGui to control microcontrollers via Bluetooth and socket connections
- Created firmware in MicroPython and C++ to drive motors, control LCD displays, and process serial commands
- Engineered real-time data flow optimizations for responsive robotic control applications
- Implemented cross-platform compatibility for controlling various microcontroller types

Full-Stack Mobile Application | Kotlin, FastAPI, SQLite3

- Built an Android application with secure JWT authentication connected to a custom FastAPI backend
- Designed RESTful API endpoints for efficient data synchronization between mobile app and web interface
- Implemented dynamic UI elements that automatically update based on database state changes
- Created comprehensive API documentation and testing suite for reliable development

React MakerSpace Signup Portal | React.js, PHP, SQLite3

- Architected and deployed a full-stack signup system for a college MakerSpace club
- Developed custom PHP API for secure database interactions and dynamic content management
- Implemented user authentication, form validation, and responsive design principles
- Optimized database queries for improved performance and scalability

Task Management Web Application | Python, Django, MongoDB

- Created a feature-rich task management application with Django and MongoDB
- Engineered an efficient data schema for optimal query performance and scalability
- Implemented user authentication, task categorization, priority management, and deadline tracking
- Optimized backend performance through strategic API design and database query refinement

EDUCATION

Associate of Science in Computer Science

Chaffey College, Rancho Cucamonga, CA

Relevant Coursework: Data Structures, Algorithms, Database Management, Software Engineering, Operating Systems