Jayson Acosta

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EDUCATION

Iowa State University   Ames, IA

Bachelor of Science in Computer Engineering, Minor in Spanish   *Aug. 2022 – May 2026*

- **Relevant Coursework:** Data Structures, Algorithm Analysis, Software Development, Operating Systems, Computer Organization & Design, Embedded Systems, Construction of User Interfaces
- Treasurer for Wallace Hall
- Volunteer for Students Helping Rescue Animals

EXPERIENCE

Software Engineer Apprentice & Delivery Lead   May 2025 – Aug 2025

Source Allies   *Urbandale, IA*

- Automated WiFi voucher generation using AWS Lambda and UniFi API integration, eliminating 5+ hours of weekly manual work and improving security through automated cleanup
- Migrated legacy case studies to GraphQL architecture, creating AWS Lambda-hosted subgraph with Apollo Studio integration for unified client and project metadata access
- Redesigned Teammate Directory application by implementing comprehensive testing frameworks, replacing direct API calls with GraphQL queries, and restructuring project architecture with full documentation
- Upgraded MySQL RDS infrastructure from Aurora 2.0 to 3.0 and decommissioned legacy databases, reducing monthly operational costs by 50%
- Enhanced Account Management Automation (AMA) by implementing on-demand GSuite provisioning (reduced setup from 1 hour to 20 seconds), improving error handling, and developing SSO integration POC
- Led cross-functional development team through daily stand-ups, sprint planning, and stakeholder demonstrations
- Managed team backlog and coordinated cross-team meetings, ensuring project alignment and delivery
- Implemented development metrics and workflows including Test Driven Development (TDD) tracking and pair programming processes to track team efficiency
- Created Slack integrations for team metrics tracking and continuous process improvement

PROJECTS

Project Helper AI Chatbot | *TypeScript, React, Python, LangChain, AWS, PostgreSQL*   May 2025 – Present

- Built full-stack AI chatbot to provide intelligent code repository analysis and project insights, addressing the challenge of quickly understanding large codebases
- Integrated AWS Bedrock with custom LangChain pipeline for natural language processing, enabling conversational queries about project architecture and functionality
- Designed PostgreSQL database with GitHub webhook integration for real-time repository synchronization and automated code change tracking
- Implementing RAG (Retrieval-Augmented Generation) system with vector embeddings to provide contextually relevant responses about development patterns

Konnect Android App | *Java, XML, Android SDK, RESTful APIs*   Aug 2023 – May 2024

- Led frontend development for team collaboration Android app with 4 developers, architecting UI/UX and API integration
- Resolved over 80% of team's reported bugs through systematic debugging and code optimization
- Optimized API calls and rendering pipeline, reducing response time by 50%, improving app performance
- Implemented real-time messaging with WebSocket connections and comprehensive user settings

TECHNICAL SKILLS

Programming Languages: JavaScript/TypeScript, Python, Java, C, HTML, CSS
Frameworks & Libraries: React, Next.js, Node.js, Express.js, LangChain
Databases: PostgreSQL, MongoDB, MySQL
Cloud & DevOps: AWS (Lambda, SQS, Bedrock, RDS, EC2), Azure (Enterprise Applications, Functions), Terraform
Tools & Methods: Git, GitHub, Gitlab, Agile (Scrum, EXTREME Programming, Kanban), Test Driven Development
Certifications: AWS Certified Developer - Associate
Languages: English (Native), Spanish (Intermediate), American Sign Language (Beginner)