

CALVIN SSENDAWULA

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PROFESSIONAL PROFILE

Software Engineer with experience building scalable, secure applications that evolve into customer-centered products, leveraging cloud, AI, and continuous innovation to deliver reliable solutions that prioritize performance and user trust.

Expertise and Accomplishments include:

- Completed an SDE internship at Amazon, using AWS Lambda and DynamoDB for efficient data processing and storage, sharpening skills in dependency injection, cloud services, and automated testing.
- Wrote clean, maintainable code meeting test coverage thresholds, used Git for version control, and executed unit tests to ensure reliability and minimize future production-level bugs during internship project deployment.
- Improved scalability and efficiency by deploying AWS Lambda to streamline compute-intensive tasks and using DynamoDB to support a scalable backend infrastructure for real-time data handling.
- Designed a baggage tracking system and relational database using SQL and Java, applying object-oriented programming principles and algorithmic thinking to optimize data handling and system functionality.
- Built “Grup Lnch,” a full-stack mobile application using cloud and AI features to recommend restaurants and track fridge inventory, incorporating location services for enhanced user experience.
- Implemented continuous integration pipelines and basic monitoring strategies to support code quality and system uptime in academic projects simulating production environments.
- Certifications:** AWS Cloud Practitioner, Wells Fargo SWE Job Simulation
- Languages:** English, Spanish

EDUCATION

Bachelor of Science, Computer Science, Adams State University, Alamosa, CO – Anticipated Dec 2025

Projects included:

Secure Data Transmission for Remote Model Training - Jan 2025

- Developed a communication pipeline for remote model training using AES encryption and SSL/TLS over HTTPS.
- Implemented Flask-based server architecture with focus on system reliability and performance optimization.

Afro-Tech AI Hackathon – Kobby AI Watch App - Oct 2024

- Developed Kobby AI, a full stack watchOS 11 app using React Native, OpenAI APIs, and Google Cloud functions.
- Implemented voice recognition and text processing, allowing users to store and recall names.

TECHNICAL SKILLS

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|------------------|---------------|---------------------------|----------|
| • Agile | • C# and C++ | • Docker/Containerization | • Python |
| • Android Studio | • Code Review | • Java | • React |
| • API Design | • CSS3 | • JavaScript | • SDLC |
| • AWS | • Database | • PostgreSQL | |
| • AWS DynamoDB | • Gitlab | • Node.js | |
| • Linux/Unix | • HTML | | |

PROFESSIONAL EXPERIENCE

RESNET Technician, Adams State University - CS, Alamosa, CO

Aug 2021 – Present

- Set up and deployed over 80 new computers for professors, resetting BIOS and reimaging machines.
- Troubleshoot complex production issues using terminal commands, networking diagnostics, and system monitoring.

Software Developer Engineer Intern, Amazon, Dallas, TX

May 2024 – Aug 2024

- Developed a scalable, cloud-based inventory processing solutions using AWS lambda and DynamoDB for e-commerce operations, improving processing efficiency by 40%.
- Collaborated with cross-functional teams to refine features, implement optimizations, and enhance performance.

Shift Supervisor, CVS Pharmacy, Dallas, TX

May 2018 – Aug 2023

- Led a team of six managing a 13,000 sq. ft. store and achieved top district sales for the CarePass program, contributing to over \$1M in revenue and significantly boosting customer engagement.
- Provided exceptional customer service and resolved complex issues to enhance the shopping experience.