

# CALVIN SSENDAWULA

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## PROFESSIONAL PROFILE

Upcoming Computer Science Graduate (Dec 2025) with SDE internship experience building scalable Backend (AWS/Cloud) systems. Proven exposure in AI/NLP (spaCy NER) and Frontend (React), leveraging Python, Java, and C/C++ to deliver end-to-end solutions.

### *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.
  - Resume Parsing and Semantic Matching Engine: Developed a full-stack AI Resume Builder application leveraging Python and a custom-trained spaCy Named Entity Recognition (NER) model to parse key resume entities (skills, experience, education)
  - 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 and deployed “Collage Career Gap,” a full-stack web application to improve how students at my campus transition into their careers by communicating and collaborating closely with heads of departments to implement a robust student application where professors share job opportunities, podcasts and career advice for students.
  - Implemented continuous integration pipelines and basic monitoring strategies to support code quality.
  - Certifications:** AWS Cloud Practitioner, AWS Certified AI Practitioner
  - Languages:** English (Fluent), Spanish (Intermediate), Luganda (Native)
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## EDUCATION

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

### *Projects included:*

#### *LandIt AI Resume Builder – Skill Gap Emphasis - Jan 2025*

- Developed a containerized RESTful API backend using Docker and Python, integrated with a PostgreSQL database and an embedding service to support efficient semantic matching and relationship extraction.
- Developed a modern, responsive frontend using React (JavaScript) and a component-based architecture to enable seamless user interaction, dynamic data visualization, and real-time updates from the NLP backend.

#### *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.
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## TECHNICAL SKILLS

**Programming And Web Technologies:** Python, Java, C, C++, Javascript, Node.Js, React, CSS3, HTML, Swift

**Frameworks And Databases:** AWS (S3, AWS Lambda), Linux/Unix, Docker/Containerization, PostgreSQL, Database, Android Studio, Gitlab

**Skills:** API Design, System Design, Code Review, Agile, SDLC, CI/CD, OOPS Concepts, Data Structures

**Familiar:** PyTorch, TensorFlow, Assembly, Natural Language Processing, GenAI, Next.js, Systems Architecture, Redis

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## 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.

**Master AI Trainer, Invisible Technologies, Remote**

September 2025 – Present

- Analyzed and evaluated AI model outputs focusing on personalization and relevance features to improve the quality of GenAI responses for users.
- Applied strict project guidelines and data analysis principles to ensure consistency and accuracy when reviewing user-facing model responses

**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.
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