

Lydia Jepkoech, BSc.

Software Engineer | Full-Stack Development & API Engineering | Goldman Sachs

[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

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Summary

Full-stack software engineer with 14 months of production experience at Goldman Sachs, specialising in **RESTful API design**, **React**, and comprehensive testing for enterprise financial applications serving 300+ users. Built and optimised 10+ Spring Boot APIs, maintained 96% test coverage using Mockito and Cypress, and led architectural analysis that drove DynamoDB adoption across global engineering teams. Builds AI/ML systems independently using Python, LLMs, and Docker.

Technical Skills

Backend & Infrastructure

– **Java** (Spring Boot, Spring Security), **RESTful API design**, **SQL**, **DynamoDB**, **Elasticsearch**, **Docker**, **CI/CD** pipelines

Frontend & Languages

– **JavaScript**, **TypeScript**, **React**, **Node.js**, **Python**, **Streamlit**, **Git/GitHub**, **Agile (Scrum)**

Testing & AI/ML

– **Mockito** (unit + integration), **Cypress** (end-to-end), **JUnit**, **PyTorch**, **scikit-learn**, **GitHub Copilot**

Experience

Full-Stack Engineering & Scalable Platform Development

Dec 2024 – Feb 2026

Software Engineer, Goldman Sachs Group International

- Built and optimised 10+ RESTful APIs with **Spring Boot**, authoring endpoint documentation and validating reliability via Swagger and Postman to ensure standards compliance for consuming teams across global engineering.
- Implemented comprehensive testing strategies including unit and integration tests with **Mockito** and end-to-end tests with **Cypress**, maintaining 96% test coverage and reducing regressions across production features.
- Led analysis of trade-offs between DynamoDB and an existing database solution, presenting findings to global engineering stakeholders and driving cross-team alignment on DynamoDB adoption through structured, evidence-based reasoning.
- Collaborated with product managers to translate ambiguous requirements into well-defined engineering solutions, balancing technical trade-offs to ship 5+ user-facing features in fast-paced Agile sprints.

Backend Engineering & Search Infrastructure

Jun 2022 – Aug 2022

Software Engineer Intern, Goldman Sachs Group International

- Implemented 8 **Elasticsearch** queries and developed 4 Java **Spring Boot** REST endpoints for an enterprise search tool serving 300+ users, integrating frontend and backend services in an Agile, globally distributed team.

Projects

Voice-to-Voice Translator

2026

Personal Project

- Built a real-time voice-to-voice translation app for English, Swahili, and Zulu, integrating Groq Whisper (speech-to-text), **Llama 3.3 70B** (translation), and Edge-TTS into a Streamlit pipeline containerised with Docker.

JWT Authentication Service

2026

Personal Project

- Built a JWT authentication service in **Spring Boot 4** and Java 17, implementing a custom Spring Security filter chain, HS256-signed token generation and validation, and JPA/PostgreSQL user persistence with role-based access control.

Education

BSc. Applied Computer Technology

Jun 2021 – Dec 2024

United States International University Africa (USIU-Africa), Nairobi, Kenya