

Kamogelo Ellen Kganakga

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SUMMARY

Software engineer specializing in backend systems, DevOps pipelines, and cloud infrastructure (AWS, Docker). Built distributed systems, serverless APIs, and e-commerce platforms using Python, Java, Spring Boot, FastAPI, and Next.js. Currently deepening cloud expertise through AWS Cloud Practitioner certification prep.

EDUCATION

- African Leadership Xperience** Remote
Certificate in Software Engineering, Backend Specialization; GPA: 96.78% Aug 2023 – Aug 2024

BACKEND PROJECTS

- Cloud-Native DevOps Pipeline** Refactored monolithic app into 12 microservices deployed on AWS EKS using Docker, Kubernetes, and Terraform (VPC, IAM, EC2, Security Groups). Built CI/CD with GitHub Actions for testing and Argo CD for GitOps deployment. Configured ingress, persistent volumes (PV/PVC), and Route 53 DNS. [GitHub]
- Full-Stack E-Commerce Platform** Built responsive Next.js e-commerce application with Stripe Checkout integration and redirect-based payment flow. Implemented cart management using React Context and progressive image loading. Deployed on AWS Amplify. [GitHub]
- Computer Vision Inventory Backend** Developed AI inventory system with HuggingFace DETR model for object detection. React frontend for inventory management + FastAPI backend with model endpoints. Built image processing pipeline and REST API for frontend-backend communication. [GitHub]
- Serverless Commerce API** Contributed to AWS Hackathon serverless API using C#, .NET 8, Lambda, DynamoDB, and API Gateway; focused on infrastructure, request handling, and deployment. (Business logic confidential due to proprietary startup IP)
- Environmental Data Management API** Built RESTful API with 8 endpoints using Spring Boot and JPA for environmental data management. Designed normalized database schema following 3NF principles with H2 (SQL) database integration. Implemented comprehensive API documentation using Swagger/OpenAPI for endpoint testing and exploration. [GitHub]
- Project Management API** Developed secure project management API with 15 asynchronous endpoints using FastAPI and MongoDB (NoSQL). Implemented JWT authentication with bcrypt password hashing and token expiration handling. Built modular routing system for user management, milestone tracking, task assignment, and progress monitoring. [GitHub]

EXPERIENCE

- Fallible** Remote
Contract Software Engineer (UI/UX → Frontend Development) Aug 2023 – May 2025
 - UI/UX Collaboration (Aug 2023 – Mar 2024)** Built iOS design system in Figma following Apple HIG principles, maintaining 95% design-to-code fidelity across 1,000+ wireframes.
 - Frontend Development (Apr 2024 – Dec 2024)** Developed responsive Next.js SaaS landing page achieving 96+ PageSpeed score and WCAG 2.1 compliance.
 - Frontend Development (Apr 2025 – Jun 2025)** Built 2 professional websites for South African dancers using React/Next.js, creating custom UI components and ensuring mobile responsiveness.

TECHNICAL SKILLS

Languages:	Python, Java, C, C++, C# JavaScript
Frameworks:	Spring Boot, React, Next.js, FastAPI, .NET
Cloud & DevOps:	AWS (Lambda, EKS, DynamoDB, Amplify), Docker, Terraform
Databases:	MongoDB, DynamoDB, MySQL
Tools:	Git, Figma, Linux

CERTIFICATIONS & ACHIEVEMENTS

- Top #15 GitHub Contributor – South Africa (2025):** Ranked via committers.top [Link]
- FreeCodeCamp Python Certification:** 300 hrs, hands-on projects [Link]
- FreeCodeCamp C# Certification:** OOP, LINQ, functional C# [Link]
- Oracle DB Foundations Associate:** SQL, indexing, normalization [Link]
- AWS Cloud Practitioner – In Progress:** Core AWS + billing + services