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Professional Summary

Full-stack Developer (Java, Python, JavaScript) with experience building scalable microservices and REST/GraphQL APIs in enterprise environments. Contributed to Spring Boot and Flask systems used by internal teams at Safaricom, improving data access, automation, and workflow efficiency. Comfortable with Docker, CI/CD, OAuth/JWT, and AI-powered automation (n8n). Seeking backend or full-stack roles focused on scalable systems and data-driven products.

Education

2021 – 2025	Strathmore University Bachelor of Science in Informatics and Computer Science (Second Class Honours, Upper Division)
2017 – 2021	South Tetu Girls' High School Kenya Certificate of Secondary Education (B Plain)

Work Experience

May – December 2025 **Full-stack Developer Intern at Safaricom PLC - Research, Design, and Innovation Team**

- Designed and implemented Spring Boot microservices for an Innovation Portal, improving modularity and reducing feature delivery time by ~30%.
- Built and maintained REST and GraphQL APIs consumed by frontend teams, improving data access reliability and reducing integration issues during testing.
- Implemented OAuth-based authentication and role-based access control, securing internal endpoints used by multiple departments.
- Automated idea-triage workflows with n8n, reducing manual review effort by several hours per week through duplicate detection and classification.
- Collaborated in Agile sprints, code reviews, and testing cycles, contributing to performance tuning and bug fixes across services.

January – March 2024 **Industry-Based Attachment at Kenya Power and Lighting Company**

- Provided user support and hardware/software maintenance across KPLC departments.
- Reconnected PCs and printers to internal networks; resolved connectivity issues.
- Assisted in updating software tools and maintaining smooth IT operations.
- Delivered technical support at multiple company branches, demonstrating adaptability and collaboration.

Key Projects

Innovation Portal

Tech Stack: Spring Boot (Java), Microservices Architecture, GraphQL APIs, Node.js

- Contributed to the development of an enterprise innovation portal used to track and manage ideas submitted to the Innovation Team.
- Designed and implemented backend microservices using Spring Boot, enabling scalability and modular system design.
- Documented backend architecture and API contracts.

USSD Journey Testing Dashboard

Tech Stack: Flask (Python), REST APIs, PostgreSQL, HTML, CSS, Bootstrap, OAuth, Docker

- Designed and developed a dashboard using Flask, SQL, HTML/CSS, enabling teams to visualize, validate, and debug USSD menu paths.
- Structured relational data models and queries to support normalization and reporting views for operational analysis.
- Integrated backend APIs with frontend components to support real-time updates and error-state handling.
- Implemented OAuth-based authentication to secure access to the application.
- Deployed the system with Docker for internal testing and feedback, improving iteration speed across the Mobile Data team.

n8n Workflow Automation

- Worked on multiple workflow automation projects using n8n, collaborating with cross-functional teams.
- Designed and executed an automated workflow to analyze ideas submitted to the innovation portal using AI models. Integrated AI for duplicate detection and classification.

Skills

- **Languages:** Python, Java, JavaScript, Kotlin, SQL
- **Frameworks & Tools:** Spring Boot, Flask, Streamlit, n8n, Jira, Confluence, Power BI
- **APIs:** REST, GraphQL, OAuth 2.0, JWT
- **Databases:** MySQL, SQLite, PostgreSQL
- **DevOps:** Docker, Git, GitHub, GitLab CI/CD, Linux
- **Core Competencies:** Agile / Scrum Collaboration, Technical documentation, Problem solving, Time management

Certifications

ALX Africa - Data Science Program

Certificate: <https://savanna.alxafrica.com/certificates/eS2phYZ5H9>