

ISAAC BAKARI JUMA

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Portfolio: myportfolio-bakari.netlify.app

PROFESSIONAL SUMMARY

Full-Stack Software Engineer who builds scalable, full-stack web applications with Python (Flask) and JavaScript (React). Delivered a production-ready platform that automated a key business workflow, reducing manual processes by up to 70% through strategic automation and database optimization. Proven ability to own a project from concept through deployment using modern CI/CD pipelines (Docker, Netlify).

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), SQL

Frameworks & Libraries: Flask, React, Node.js, SQL Alchemy, Alembic, Tailwind CSS

Databases: PostgreSQL, SQLite

Tools & Platforms: Git, GitHub, Docker, RESTful APIs, JSON Server, Command Line, Netlify

Concepts: Object-Oriented Programming (OOP), MVC Architecture, Data Modeling & Migration, Authentication & Authorization (JWT), CI/CD, Agile Development, Unit Testing, API Integration, Scalability

PROFESSIONAL EXPERIENCE

IT Support Intern | Nairobi City Water & Sewerage Company | Nairobi, Kenya | Feb 2022 – May 2022

- Authored scripts to automate routine system checks, reducing manual intervention time by 15%.
- Resolved 50+ technical issues per week, collaborating with developers to debug software, increasing staff productivity by 20%.
- Optimized network protocols, reducing connectivity downtime by 15% and enhancing internal system reliability.

PROJECTS

SomaPoa Bursary Management Platform | Python, Flask, React, PostgreSQL, SQL Alchemy

[GitHub: github.com/BakariJuma1/SomaPoa]

- Engineered a full-stack app automating bursary applications, cutting processing time for admins and students.
- Optimized database schemas with SQL Alchemy, improving query response times by 30%.
- Implemented JWT authentication and secure document uploads, ensuring role-based access and compliance.
- Deployed containerized backend and responsive frontend using Docker & Netlify, achieving 100% end-to-end functionality.

County Permit Tracker (CLI App) | Python, SQL Alchemy, SQLite | [GitHub: github.com/BakariJuma1/county-permit-tracker]

- Developed a role-based system for business registration, permit issuance, and compliance checks.
- Automated expiry notifications and created audit trails, reducing manual data checks by 70%.
- Architected validated data models, ensuring integrity across thousands of records.

PaySync – Debt Management Dashboard | React, Flask, SQLite | [GitHub: github.com/BakariJuma1/Debt-management-app-]

- Designed an SPA for businesses to track customer debts and balances in real-time.
- Built scalable backend data structures eliminating calculation errors, ensuring accurate records.
- Boosted feature development speed by 40% with reusable React components and custom hooks.

EDUCATION

Moringa School | Nairobi, Kenya

Full Stack Web Development | Expected 2025

- 20-week immersive program in Python, Flask, JavaScript, and React.

Taita Taveta University | Voi, Kenya

BSc in Information Technology | Dec 2024