MARK KITHIA

Full-Stack Software Engineer | Nairobi, Kenya

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Software Engineer with 1+ year of hands-on experience building scalable web applications. Proven track record delivering production-ready projects across diverse domains — from a charity water company donation platform to an ELD backend system and a cross-platform kids learning app. Proficient in TypeScript, Python, React, and Kotlin, with deep expertise in RESTful API design, JWT authentication, and database architecture. Adept at writing clean, modular code and collaborating within Agile teams. Open to local and international remote opportunities.

TECHNICAL SKILLS

Languages	TypeScript	Python	JavaScript	Kotlin
Frontend	React	Vite	HTML5	CSS3	TailwindCSS	Responsive Design
Backend	Flask	FastAPI	REST APIs	JWT Authentication	API Integration	Node.js
Database	PostgreSQL	SQL	SQLAlchemy	Relational Modelling	Migrations
Tools	Git	GitHub	Version Control	Agile	System Design	Debugging

PROFESSIONAL EXPERIENCE

Full-Stack Developer — Projects & Collaborative Work *| 2024 – Present*

- **React + Python** across multiple real-world domains.
- Built and consumed RESTful APIs with proper routing, validation, and structured error handling.
- **JWT-based authentication** and secure user management workflows.
- Modelled relational databases and managed schema migrations with SQLAlchemy.
- Integrated external APIs and automated email notification systems.
- **modular, scalable architecture** patterns for long-term maintainability.
- Collaborated with cross-functional teams via Git version control and structured pull-request workflows.

SELECTED PROJECTS

Charity Water Donation Platform

Full-stack web application supporting a water charity reaching underserved communities across Kenya.

- **React frontend** and a Python/SQL backend.
- Implemented user authentication, authorization roles, and secure session management.
- Developed product and content management dashboards for charity administrators.
- **automated mailing system** for donor engagement and campaign updates.
- Deployed responsive UI optimised for low-bandwidth users in rural areas.

ELD Fleet Management System (3-Repo Full-Stack Project)

Electronic Logging Device system built across a Python backend, React web dashboard, and Kotlin mobile app — demonstrating end-to-end multi-platform architecture.

- **Python backend** to handle driver logs, HOS compliance rules, and fleet data.
- Designed RESTful endpoints consumed independently by both the React dashboard and Kotlin app.
- **React frontend** as a responsive web dashboard for fleet managers.
- **Kotlin Android app** for drivers to log trips and sync data in real time.
- Implemented robust data validation and structured API responses for multi-client support.

⊢ Backend (Python): https://github.com/Kithiamark/eld-backend2
⊢ Frontend (React): https://github.com/Kithiamark/eld-frontend
⊢ Mobile App (Kotlin): https://github.com/Kithiamark/Eld-driver

Kids Bible Platform

Cross-platform Bible learning application for children, built with Python (backend) and React Vite (frontend).

- Designed an engaging, child-friendly UI with interactive Bible stories and learning modules.
- Built a Python API serving dynamic content, progress tracking, and user session data.
- Used React Vite for a fast, optimised frontend experience on both desktop and mobile.

⊢ Repository: https://github.com/Kithiamark/Kids-Bible_platform

Game Store Web Application

Dynamic React platform for browsing, filtering, and discovering games using public APIs.

- **real-time game data** and media assets.
- Built advanced filtering, search, and category navigation with reusable component architecture.
- Designed fully responsive layout with TailwindCSS for seamless desktop and mobile experience.

⊢ Repository: https://github.com/Kithiamark/GameStore

Personal Portfolio Website

Fully responsive personal portfolio showcasing projects, skills, and professional background.

- Engineered with performance optimisation, semantic HTML, and maintainable CSS architecture.
- Structured codebase for easy scalability as new projects are added.

EDUCATION

Certificate in Software Engineering — *Moringa School, Nairobi, Kenya*
February 2024 – November 2024 ★ **Graduated with Honors**
Relevant Coursework: Data Structures & Algorithms, System Design, Full-Stack Web Development

ADDITIONAL STRENGTHS

- Strong problem-solving and analytical thinking — comfortable breaking down complex systems.
- Quick learner who thrives in new technology stacks and fast-moving environments.
- Clear communicator and effective collaborator in both remote and in-person team settings.
- Growth-oriented mindset with a consistent track record of shipping complete, working products.

CERTIFICATIONS

Certificate in Software Engineering — Moringa School (2024). Physical certificate available upon request.

References available upon request.