

Emmanuel Oire

Software Engineer

Nairobi, Kenya / +254-793-650509 / emmanuelterah98@gmail.com / [LinkedIn](#) / [Github](#) / [Portfolio](#)

SUMMARY

Full-Stack Software Engineer specializing in Python (Flask), React, and DevOps (Docker, Kubernetes). I've built scalable web/mobile applications and optimized backend systems, delivering 20–50% efficiency gains through automation and API integrations. I architect solutions for high-volume transactions, PCI-compliant payment systems, and data-driven dashboards. I thrive in Agile environments, fostering innovation while streamlining CI/CD pipelines.

TECHNICAL SKILLS

Frontend: React, React Native, Angular, Tailwind, CSS, HTML, JavaScript, TypeScript

Backend: Python, Flask, REST API, GraphQL, Node.js

Databases: PostgreSQL, MongoDB

DevOps: Docker, Kubernetes, Azure, Jenkins, Terraform, DigitalOcean, AWS.

Other Tools: Redux, Odoo ERP, Redis, Metabase, Jira, Trello.

SOFT SKILLS

- Proven leadership in cross-functional teams and project ownership.
- Strong team collaboration and interpersonal communication.
- Creative and innovative thinking in complex scenarios.

EXPERIENCE

Senior Software Engineer – Part Time

Dec 2024 – Present

Scout Global

- Implemented AI-driven solutions and large language models (LLMs) to analyze and interpret sports science data, **increasing analytics accuracy by 30%**.
- Led front-end development (Angular and TypeScript), achieving a 40% improvement in user engagement and **a 20% reduction in page load times** through optimized design and functionality.
- Integrated advanced data visualization tools, **improving the accessibility of analytics dashboards by 15%** and enabling faster decision-making for stakeholders.
- Integrated **Sentry** for real-time error monitoring and alerting, reducing production issue resolution time by **50%** and improving system reliability.
- Deployed services on **DigitalOcean** with cost-efficient auto-scaling, reducing cloud spending by **25%** while maintaining **99.8% uptime**.

Software Engineer

Kwanza Tukule Foods Limited

Oct 2024 – May 2025

- **Architected** cross-platform mobile apps (React Native) that **reduced logistics delays by 20%** via real-time GPS tracking and optimized DB queries
- Led the development of critical web application features, **optimizing supply chain processes and improving efficiency by 50%.**
- Leveraged Docker and Kubernetes to enhance deployment processes and scalability, **resulting in a 25% improvement in system performance and supply chain efficiency.**
- Integrated advanced data visualization tools, including Metabase, to improve the **accessibility of analytics dashboards by 35%**, enabling faster and more informed decision-making for stakeholders across supply chain operations.
- Integrated **Redis caching** to reduce database query load by **40%**, improving API response times by **30%** and lowering cloud resource costs.
- Led end-to-end integration of KCB and Equity Bank payment APIs, automating transaction processing and reducing manual reconciliation by **80%** (saving **15+ hrs/week**).
- Developed secure backend (Python/Flask) and responsive frontend (React) to process **1500+ transactions/day.**
- Built RESTful services and a compliant PostgreSQL audit trail supporting **\$2.1M+ monthly volume.**
- Achieved **PCI DSS** compliance with encrypted payment handling and audit-ready logging.
- Reduced payment errors by **65%** via automated validation; improved reporting accuracy by **70%.**
- Maintained **99.8% system uptime** for continuous cross-bank transaction monitoring.

Systems Engineer

Kylix Technologies

July 2024 – Oct 2024

- Customized 5+ Odoo ERP modules, developed 10+ Python scripts for automation, and created 3 mobile/web apps using Ionic and Angular, **increasing operational efficiency by 30%.**
- Spearheaded 3 IT infrastructure projects, including server upgrades and application development, **resulting in a 25% improvement in system performance.**
- Developed and integrated **STK Push payment functionality** using **Safaricom's Daraja API**, enabling real-time M-Pesa transactions within applications.
- Set up **CI/CD pipelines** with **Jenkins** and **Ansible** to automate builds, testing, and deployments, ensuring smooth and repeatable delivery to staging and production environments.
- Leveraged AWS services including **EC2**, **S3**, and **CloudFront** for deployment and storage, ensuring high availability and secure asset delivery.
- Configured **Auto Scaling Groups** and **Elastic Load Balancers** to dynamically handle varying workloads, improving uptime and scalability during peak usage.

Software Engineer

Tuzidi

Sept 2022 – June 2024

- Engineered 10+ scalable web applications using JavaScript, Python, SQL, and

React, **improving performance, usability, and client satisfaction across diverse projects.**

- Implemented 20+ new client-requested features while maintaining coding standards for consistency across projects.
- Led adoption of responsive layouts, **resulting in 50% faster page loading times and a 25% increase in mobile user engagement.**
- Integrated Redux for efficient state management, **improving application performance by 20% and user experience by 35%.**

Junior Backend Developer

Feb 2021 – Aug 2022

Kapu (E-commerce Platform)

- Engineered scalable backend services using **Node.js** and **Express**, powering an e-commerce platform supporting 10,000+ active vendors and handling thousands of concurrent transactions.
- Collaborated with the frontend team on a **TypeScript + Angular** codebase to streamline product listing, checkout, and payment flows—resulting in a **30% faster page load time** and improved UX.
- Designed and optimized **MongoDB** schemas to support dynamic inventory management and order tracking, improving query efficiency by **40%** through index tuning and aggregation pipelines.
- Implemented role-based access controls (RBAC) and token-based authentication, enhancing platform security and reducing unauthorized access incidents by **100%**.

Frontend Developer Intern

May 2019 – March 2020

Andela

- Supported the development of responsive web applications using **Angular** and **TypeScript**, while following Google's frontend engineering standards.
- Assisted in implementing and testing UI components, contributing to improved usability and accessibility across supported platforms.
- Participated in daily stand-ups, sprint planning, and code reviews, gaining hands-on experience with **Agile** workflows and scalable frontend practices.

EDUCATION

DevOps Engineering

Moringa School, Nairobi

Software Engineering

Moringa School, Nairobi

Bachelor of Science (B.S.) - Applied Mathematics

University of Nairobi, Nairobi