

IAN BWANA

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CORE SKILLS & COMPETENCIES

AI & Automation: LLM application development (Anthropic Claude, OpenAI GPT-4o) · Agentic AI & orchestration (LangGraph, LangChain) · Retrieval-Augmented Generation (RAG) & vector search (pgvector, embeddings) · Prompt engineering & evaluation · ML-driven personalization & recommendation · AI workflow & process automation · MLOps/LLMOps, model deployment & monitoring

Engineering: JavaScript/TypeScript (React, React Native, Next.js, Node, Express, NestJS) · Python (Django, Flask, FastAPI) · Golang · RESTful & GraphQL API design · Microservices & serverless architecture

Integration & Data: Enterprise system, API & middleware integration · PostgreSQL, MySQL, Redis, MongoDB, Cassandra · ETL & data pipelines

Platforms & Delivery: AWS, Azure, DigitalOcean · Docker & Kubernetes · CI/CD (GitHub Actions) · Git & version control

PROFESSIONAL EXPERIENCE

Senior Fullstack Engineer

Contract

Priv | Remote

- Building AI-augmented product features on Anthropic Claude, integrating LLM-driven workflows and agentic capabilities directly into a production React Progressive Web App and NestJS services.
- Architecting the full-stack platform across NestJS, Next.js, and a React PWA, backed by MySQL for transactional data and Redis for caching, queuing, and low-latency access.
- Designing reliable API and service-integration patterns, using Redis-backed queues and caching to raise responsiveness and system throughput.
- Establishing reusable components and engineering standards to accelerate delivery while maintaining code quality and reliability.

Senior Software Engineer

Nov 2022 – Mar 2026

Route.Money | Nairobi, KE (Remote)

- Led a team of 8 engineers building a scalable, microservices-based marketing and payments platform, increasing service uptime by 30% and improving customer success.
- Designed and shipped production AI capabilities — LLM-powered features, RAG pipelines over pgvector, and agentic automation workflows — to personalize user experiences, driving a 25% boost in user engagement and retention.
- Built AI-driven automation across internal operations, integrating LLMs (GPT-4o, Claude) with enterprise APIs and middleware to reduce manual effort, cut cost-to-serve, and accelerate decision-making.
- Established solution-architecture standards and led architecture and code reviews, alongside comprehensive unit and integration testing that reduced system bugs by 40% and improved deployment cycles by 15%.
- Refactored the core mobile platform from Flutter to React Native, adding new features, removing technical debt, and reducing bug rates by 40%.
- Mentored engineers and codified engineering SOPs, fostering a culture of ownership, innovation, and disciplined execution.

Senior Software Engineer

Dec 2021 – Oct 2022

Community Phone Organization | Boston, MA (Remote)

- Developed an e-commerce web application (React Native Web, Python/Django) that handled over 30,000 transactions monthly.
- Created an ETL data pipeline consolidating data from eight disparate sources into the company database and a Retool dashboard, improving business-critical decision-making.
- Implemented a CI/CD pipeline (GitHub Actions, Docker) with automated testing, improving deployment efficiency by 75% and reducing bug deployments by 90%.
- Orchestrated seamless integrations with two major US Mobile Virtual Network Enablers, driving a direct revenue increase of \$100,000 within 3 months.

Senior Software Engineer (Tech Lead, Mobile)

Dec 2020 – Nov 2021

Sky.Garden | Nairobi, KE (Remote)

- Led a team of 11 building, maintaining, and testing four React Native applications powering the company's e-commerce-as-a-service core product.
- Pioneered a custom UI library across all frontend products, enhancing consistency and efficiency of client-side development.
- Built a shipping and delivery application (React Native, React Native Web, Electron) to streamline inventory management, order tracking, and real-time delivery updates for logistics operations.
- Spearheaded a comprehensive code-review and testing culture to improve code quality and reduce bugs across development teams.

Software Engineer (Fullstack)

Dec 2018 – Dec 2020

Sky.Garden | Nairobi, KE (Remote)

- Converted an outdated jQuery-based site into a modern React + Redux application, improving performance, maintainability, and user experience.
- Designed and implemented a push-notification service (Redis, Firebase) spanning backend and frontend, improving engagement and reducing operational costs by \$10,000 annually.
- Built a custom CMS to streamline banner and ad management, improving efficiency and reducing manual update times.
- Integrated META (Facebook) APIs to enable seamless creation and publishing of ads directly from the platform.

EDUCATION

United States International University, B.Sc Information Systems

Aug 2012 – Aug 2016

Major: Cybersecurity and Computer Forensics