

BONIFACE M MWANGI

Senior Full-Stack Engineer | TypeScript, Python | AI & Scalable Cloud Platforms

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SUMMARY

Senior Full-Stack Engineer experienced building scalable web platforms and distributed systems using TypeScript, Python, React, and Node.js. Skilled in microservices architecture, AI-enabled workflows, and cloud infrastructure including Kubernetes, Docker, and CI/CD pipelines.

KEY ACHIEVEMENTS

- Automated document processing workflows using AWS Textract and LLM pipelines, reducing insurance onboarding time from 2 hours to 5 minutes.
- Built Kubernetes infrastructure and CI/CD pipelines, cutting deployment time by 70%.
- Led architecture of a Node.js/NestJS microservices platform improving scalability and long-term maintainability.
- Developed core React features for an AI voice synthesis platform, increasing user engagement by 35%.

CORE TECHNOLOGIES AND SKILLS

- Languages: TypeScript, Python, JavaScript
- Frontend: React, Next.js, React Native
- Backend: Node.js, NestJS, REST APIs
- Databases: PostgreSQL, MongoDB, MySQL
- Cloud & DevOps: Docker, Kubernetes, AWS, DigitalOcean, GitHub Actions
- AI Systems: LangChain, LangGraph, OpenAI APIs, AWS Textract

PROFESSIONAL EXPERIENCE

Incourage Insurance Ltd – Kenya

Senior Full Stack Software Engineer | Jan 2024 - Feb 2026

- Automated OCR in onboarding using AWS Textract + LLM workflows, reducing policy processing time from 2 hours to 5 minutes.
- Built Kubernetes infrastructure on DigitalOcean and CI/CD pipelines with GitHub Actions, cutting deployment time 70%.
- Led redesign of Incourage v2 into a Node.js/NestJS microservices architecture, improving performance and maintainability.
- Built a real-time agent analytics dashboard, increasing sales conversion 25%.
- Delivered React Native updates via Expo OTA, tripling release frequency and reducing downtime.
- Recruited and mentored engineers, cutting ramp-up time 50% and improving delivery consistency.

Unilever Canada, Canada

Senior Full-Stack Software Engineer | Jan 2023 - Dec 2023

- Rebuilt Trade Promotion Optimization dashboards with React + Redux, improving UI performance 45%.
- Integrated LLM-based pricing models to support data-driven B2B promotion strategies.
- Migrated UI from Ant Design v4 → v5, modernizing 100+ components while preserving functionality.
- Optimized Python/Django APIs, improving throughput and reducing latency 20%.
- Implemented CI/CD with Azure DevOps + Docker, reducing deployment time 60%.

Play.AI

Full-Stack Software Engineer | Sep 2021 - Dec 2022

- Built key React.js features for an AI voice synthesis platform, increasing user engagement 35%.
- Developed scalable REST APIs with asynchronous job queues (Node.js, BullMQ), improving throughput and reliability.
- Optimized backend performance, reducing peak response times 30%.
- Implemented real-time job status tracking, reducing support tickets 25%.
- Maintained modular, maintainable codebases enabling faster feature delivery.

Owera Switzerland Ltd

Full Stack Developer | Jun 2020 - Jul 2021

- Designed a scalable multi-tenant freelance marketplace with PHP and PostgreSQL, and React Frontend.
- Developed responsive, accessible React UI components, improving user experience
- Led creation of a custom calendar module supporting time-sensitive bookings and multilingual localization, increasing booking accuracy.
- Implemented secure user authentication and role-based access control.
- Integrated real-time notifications and messaging features, enhancing user engagement and platform retention by 25%.

Hope Worldwide Kenya – Nairobi, Kenya

Software Developer | Jan 2018 - May 2020

- Transitioned legacy apps from LAMP to MERN stack, reducing latency by 40% and improving scalability.
- Developed an Android social awareness app using React Native, integrating multimedia health education features and chat.
- Mentored internal staff on digital data management, contributing to a National Data Innovation Excellence Award.

EDUCATION

Karatina University, Kenya

- Bachelor of Science in Information Technology - 2019
- Diploma in Information Technology - 2015

TECHNICAL PROJECTS

MobiClinic — Rural Healthcare Platform (Ethiopia)

Mobile-first appointment booking and triage system for low-connectivity regions.

Stack: React Native, Expo, Firebase, Node.js, Twilio

Impact: Enabled 5,000+ rural consultations, reducing clinic congestion 40% and no-show rates 25% via SMS reminders.

AutoQuoteAI — AI Insurance Quotation Platform (UAE)

AI-powered system for generating and explaining car insurance quotations.

Stack: React, NestJS, PostgreSQL, OpenAI API, Docker, AWS Lambda

Impact: Implemented GPT-4.5 recommendation engine, reducing agent decision time **30%**.

FleetGuard — Fleet Monitoring Platform (USA)

Real-time vehicle tracking and predictive maintenance system for refrigerated logistics fleets.

Stack: NestJS, React, Firebase Realtime DB, GPS APIs, Docker

Impact: Deployed across **150+ vehicles**, reducing fleet downtime **25%** through predictive alerts.

References available upon request.