BONIFACE M MWANGI
SENIOR FULLSTACK SOFTWARE ENGINEER

Contact: +254 700 618822 | mboniface107@gmail.com | linkedin.com/in/bonificial/| bonie.online

SUMMARY

Boniface is a results-driven Full-Stack Engineer with 8+ years of experience in designing, developing, and deploying scalable applications. Proficient in React.js, React Native, and Next.js on the frontend, and Node.js, NestJS, and PostgreSQL on the backend, he specializes in building robust, high-performance systems. With expertise in cloud infrastructure (AWS, DigitalOcean, Kubernetes) and CI/CD pipelines, he ensures seamless deployments and system reliability. A strong advocate for clean architecture and system optimization, he focuses on efficient database interactions, API performance, and frontend-backend integration. He thrives in collaborative environments, leading teams, mentoring engineers, and driving product innovation through technical excellence and problem-solving.

PROFESSIONAL EXPERIENCE

Incourage Insurance Ltd, Kenya January 2024 to Current

Senior Full-Stack Software Engineer

- Led a cross-functional team of backend, frontend, and QA engineers in architecting and delivering Incourage v2, improving performance, scalability, and user experience.
- Designed and optimized backend architecture, including PostgreSQL schema, microservices, and Connection Pooling, to enhance concurrency and query performance.
- Built and managed Kubernetes clusters with CI/CD pipelines for staging, sandbox, and production, ensuring infrastructure scalability and automated deployments.
- Developed an AI-powered automated policy application system, integrating AWS Textract for OCR-based document processing and enabling real-time policy issuance.
- Implemented key features in React Native, leveraging over-the-air (OTA) updates via Expo to enhance mobile user experience and streamline app updates.
- Spearheaded the development of a Next.js-powered dashboard, improving operational insights and agent interactions.
- Led team expansion efforts, conducting technical interviews, onboarding, and mentorship to strengthen engineering capabilities.
- Contributed to Agile product planning, defining tasks, estimating timelines, and aligning development priorities with business goals.

Unilever Canada, Canada Jan 2023 to Aug 2023

Senior Full-Stack Software Engineer

- Modernized the pricing optimization tool (TPO) by migrating to React.js, resulting in significant performance improvements and an enhanced user experience.
- Upgraded the UI framework from Ant Design (AntD) 4 to AntD 5, facilitating seamless integration with legacy components.
- Optimized the Django backend to ensure smooth synchronization with front-end updates and maintain system stability.
- Efficiently utilized Microsoft Azure and Azure DevOps for hosting and deployment, ensuring a robust and scalable infrastructure.
- Guarantee services continuous deployment ability through a continuous integration workflow.

PlayHT Ltd, United Arab Emirates September 2021 – December 2022

Full-Stack Software Engineer

- Designed and developed software components (React) and comprehensive unit tests
- (Cypress/Jest/Mocha/Chai).
- Translated business requirements into functional code.
- Collaborated closely with a multidisciplinary team of developers and product managers, fostering efficient communication and project alignment.
- Maintained the integrity of the software product codebase, adhering to coding standards and best practices to deliver reliable solutions.
- Engineered scalable software solutions that accommodated growing user demands and evolving business needs.

Owera Ltd, Zurich, Switzerland / Surat, India Jun 2020 – July 2021

Full-Stack Web Developer / Development Lead

- Designed database schemas and APIs and defined the foundational database structure for the Freelance Marketplace Application – Owera.
- Developed a customised calendar solution to facilitate precise time interval selection and highlighting.
- Delivered an optimized, responsive, and cross-browser compatible UI with efficient resource utilization and rapid API throughput.

Hope Worldwide Kenya, Nairobi, Kenya Jan 2018 – May 2020

Systems Support Admin / Software Developer

- Took a lead developer role in several Agile structured projects to develop customised software solutions.
- Established clear infrastructure, toolsets, and deployment pipelines to support in-house software development.
- Mentored HWWK staff on Data Management, contributing to their National Data Innovation Excellence Award.
- Championed the transition from LAMP stack to MERN stack for all in-house application development, reducing latency by 40% and improving database administration by 20%.
- Initiated the development of the Android-based Health Educational/Social App "BIGAT" to promote safe social environments and health awareness.
- Collaborated using Jira/Git, Developed solutions in ReactJS, NodeJS Express and PHP, Tested solutions with Enzyme/Cypress/Mocha & Chai

Truweb Solutions, Nairobi, Kenya Jan 2016 – Dec 2017

Database and Systems Support Assistant

- Proposed cutting-edge technologies to improve the Companies in house ERP and Service Delivery Systems.
- Optimized database queries and SQL procedures in a client's systems to improve performance by 40% on average.

Parttime Freelance Projects

Kirana Inventory System with Barcode Scanner (March 2019 - Dec 2019)
- Developed a prototype Inventory Management app for Android.
- Implemented a Barcode detector using React Native and the Android Device Camera for image capture.
- Utilized Realtime and Firestore Database, along with NodeJS for the Backend.

Quickeats Food Delivery App - Fullstack / Android Developer (Aug 2018 - Jan 2019)

- Managed the development project for a fast-food ordering and delivery app - Quickeats.
- Designed the backend of the application using PHP, Postgres DB, and MongoDB for the Chat Application.

EDUCATION
Karatina University, Karatina, Kenya
- Bachelors of Science in Information Technology - 2019
- Diploma in Information Technology - 2015

SKILLS
- **Frontend Development** - React JS / React Native /Angular / Redux /NextJS
- **Backend Development** – NodeJS/ NestJS / PHP
- **Dev-ops & Cloud** – AWS / MS Azure / GCP / Heroku / Docker / Kubernetes
- **Databases** – Realtime Firebase / Firestore / Postgres / MySQL / MongoDB
- **Collaboration Tools** – Git / Jira / Postman / Slack
- **Video / Chat Integrations** – Twilio API/ Zoom API / WebRTC / PeerJS / SimplePeer JS

REFEREES

TPO Project Lead,
Aksoy Ayberk,
Unilever Canada
aksoy.ayberk@unilever.com

The CEO,
Samuland Investments Company
0714210445
samulandprojects@yahoo.com

The ICT Manager
Nelson Ndirangu
Hope Worldwide Kenya
0723 267099 -
ndirangu.kimiti@gmail.com

The CEO, Truweb Solutions Ltd
Jonah Ngarama
Box 54116 (00200) - Nairobi
0716330450/0702332796
truweb@icthub.co.ke