

BONIFACE KIMANI MUGURO

SOFTWARE ENGINEER | FULL-STACK & BACKEND SYSTEMS | AI MODEL TRAINING & EVALUATION

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PROFESSIONAL SUMMARY

Software Engineer with experience building full-stack and backend systems, combined with hands-on work in AI model training, evaluation, and software reasoning. Strong foundation in computer science, system design, and API development, with practical experience using Python, React, Flask, and SQL to deliver production-ready applications.

Contributed to large-scale AI initiatives focused on code generation, debugging, algorithmic reasoning, and model quality evaluation, ensuring outputs meet high standards for correctness, performance, and maintainability. Experienced working in distributed, asynchronous teams and delivering reliable, scalable software solutions.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), SQL, HTML5, CSS3

Frameworks & Libraries: React, Flask, FastAPI, Redux Toolkit, Tailwind CSS

Backend & APIs: RESTful APIs, Authentication & Authorization, RBAC

Databases: PostgreSQL, MySQL, SQLite

AI & ML: AI Model Training, Code Generation Evaluation, NLP, Prompt Engineering, RLHF

Developer Tools: Git, Docker, CI/CD, Linux, Postman, Render, Vercel

Core CS: Data Structures, Algorithms, System Design, Debugging

EXPERIENCE

OUTLIER — SOFTWARE ENGINEER / AI TRAINER

REMOTE | JUL 2023 – JAN 2025

- Trained and evaluated generative AI models for Python code generation, debugging, and optimization.
- Reviewed model outputs for correctness, efficiency, security, and maintainability using structured engineering guidelines.
- Improved model reasoning quality through detailed technical feedback and systematic QA workflows.
- Contributed to internal AI developer tools that improved debugging efficiency and overall developer experience.

REMOTASKS — AI TRAINER (SOFTWARE & NLP FOCUS)

REMOTE | JAN 2023 – JUL 2023

- Created supervised datasets for NLP and logic-based AI systems.
- Evaluated model responses for reasoning quality, edge-case handling, and instruction accuracy.
- Delivered structured assessments that improved classification performance and language understanding.

DATAANNOTATE — AI TRAINING SPECIALIST

REMOTE | LONDON, UK | JAN 2020 – DEC 2022

- Labeled and structured large-scale datasets for NLP and generative AI tasks.
- Performed prompt refinement, logic validation, and output benchmarking to improve model reliability.
- Collaborated with distributed teams to analyze performance trends and provide actionable improvement feedback.

ISUZU EAST AFRICA LIMITED — SOFTWARE ENGINEER INTERN

NAIROBI, KENYA | MAR 2018 – SEP 2018

- Applied structured problem-solving techniques to diagnose and optimize complex systems.
- Gained hands-on experience with engineering workflows, technical standards, and reliability testing.
- Developed analytical skills now applied to software debugging and system architecture.

PROJECTS

COURSIFY — React, Flask, PostgreSQL, Tailwind CSS

- Architected a role-based e-learning platform supporting student and instructor workflows.
 - Designed and implemented a RESTful backend API using Flask, deployed on Render.
 - Implemented JWT-based authentication and role-based access control (RBAC).
 - Built a responsive frontend with React and Tailwind CSS, including complex form validation.
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SOFTWARE ENGINEERING PORTFOLIO — React, Vercel

- Designed and deployed a personal portfolio showcasing software engineering projects.
 - Demonstrated component-based architecture, responsive design, and CI/CD deployment practices.
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EDUCATION

TECHNICAL UNIVERSITY OF MOMBASA

Bachelor of Science (BSc) in Computer Science | 2016 – 2018

- Coursework in algorithms, data structures, system design, robotics, and software engineering fundamentals.
 - Graduated with strong academic performance (GPA: 4.0).
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MORINGA SCHOOL

Software Engineering | Feb 2025 – Jul 2025

- Intensive full-stack curriculum covering data structures, algorithms, and modern web development.
 - Capstone: Designed and deployed a full-stack application with CI/CD pipelines.
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IBM SKILLSBUILD

Artificial Intelligence Fundamentals | 2024 – 2025

- Focus on NLP, computer vision, neural networks, and AI ethics.
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CERTIFICATIONS

- Software Engineering — Moringa School
- Artificial Intelligence Fundamentals — IBM