ERIC JOHN NIMBA

FULL-STACK SOFTWARE ENGINEER & AI OFFICER

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PROFESSIONAL SUMMARY

Full-stack Software Engineer and AI Officer experienced in building, deploying and maintaining production web applications, enterprise workflows, climate-monitoring platforms and AI-enabled knowledge tools. Skilled in Laravel/PHP, React/Next.js, Python/Flask, Node.js, PostgreSQL/MySQL, REST APIs, Docker and Linux. Develops secure dashboards, role-based systems and retrieval-augmented generation (RAG) solutions, translating stakeholder needs into usable, maintainable software. Currently pursuing an MSc in Artificial Intelligence.

TECHNICAL SKILLS

Frontend: JavaScript (ES6+), TypeScript, React.js, Next.js, HTML5, CSS3, Tailwind CSS, responsive design

Backend & APIs: PHP, Laravel, Python, Flask, Node.js, Express.js, REST APIs, authentication, role-based access control

AI & Automation: OpenAI API, LLM integration, retrieval-augmented generation (RAG), document processing, semantic search, AI-assisted analysis

Data & Databases: PostgreSQL, MySQL, MariaDB, MongoDB, SQL, database design, migrations, data validation

DevOps & Platforms: Linux, Azure virtual machines, Docker, Git, GitHub, CI/CD workflows, Render, Vercel, Frappe/ERPNext

Quality & Delivery: Postman, API testing, functional testing, debugging, troubleshooting, stakeholder testing, Agile collaboration

PROFESSIONAL EXPERIENCE

African Group of Negotiators Experts Support (AGNES) | Full-Stack Software Engineer & AI Officer

July 2024 - Present | Nairobi, Kenya

- Develop, test and maintain web-based platforms for climate project monitoring, evaluation, reporting, institutional accountability and programme management.
- Build application features using PHP/Laravel, JavaScript/React, Python/Flask, relational databases and REST APIs, including dashboards, reporting forms, search, filters and user permissions.
- Strengthen MERL-Kenya and related monitoring tools through project-level evaluation workflows, financial oversight views, evidence capture and alignment of county, national and Global Goal on Adaptation indicators.
- Develop and test AI-assisted document and stakeholder-feedback workflows for extracting insights, comparing submissions, identifying conflicting inputs and supporting evidence-based recommendations.
- Support Climate Verdict AI and other AI integrations involving document retrieval, OpenAI APIs, RAG workflows and PostgreSQL-backed services.
- Maintain production environments and enterprise applications using Azure/Linux, Docker, Git, CI/CD practices and Frappe/ERPNext; diagnose application, API, database and deployment issues.
- Work with county officials, programme teams and other stakeholders to translate requirements and user-testing feedback into practical system improvements.

HNG Tech | Frontend Developer

January 2025 - April 2025 | Remote

- Built reusable, responsive web interfaces using React.js, Next.js, TypeScript, JavaScript, HTML5 and CSS3.
- Translated Figma designs into functional components, improving usability, responsiveness and browser compatibility.
- Collaborated with a distributed development team using GitHub, issue tracking, code review and iterative delivery.

Copia Global | Frontend Developer Intern

June 2020 - August 2022 | Kenya

- Developed and refined web interfaces supporting customer ordering and delivery workflows using JavaScript, HTML and CSS.
- Tested user-facing features, resolved frontend defects and supported improvements informed by operational feedback.

SELECTED TECHNICAL PROJECTS

MERL-Kenya and Climate Monitoring & Accountability Tool (CMAT)

- Developed and refined workflows for climate project registration, monitoring, indicator tracking, evaluations, supporting evidence and reporting, with role-based user access.
- Supported integration and continued testing of project-level indicators with county, national and Global Goal on Adaptation reporting requirements.

Technologies: Laravel, PHP, JavaScript, SQL, REST APIs, Git, Docker

National Monitoring & Oversight Tool

- Improved oversight interfaces to present project completion, milestones, expenditure, funding sources and reporting status for decision-makers.
- Implemented clearer navigation and search/filter workflows; continued refining evaluation, notification and assistant-related requirements from stakeholder feedback.

Technologies: Laravel, JavaScript, dashboards, databases, REST APIs

Climate Verdict AI

- Built and supported a climate law and policy knowledge application using conversational search and retrieval from documents.
- Developed backend services, document-retrieval workflows and integrations for AI-assisted search and summarisation.

Technologies: Python, Flask, PostgreSQL, OpenAI API, RAG, REST APIs

AGNES AI Feedback and Knowledge Analysis Tool

- Developed and tested workflows to accept stakeholder input files, compare submissions and surface areas of agreement or conflict.
- Refined generated summaries and recommendations through functional testing and user-feedback review.

Technologies: LLM integration, document and audio inputs, AI-assisted analysis

Project Management Information System (PMIS) and ERPNext Support

- Configured project tracking, user accounts and permissions, and supported internal onboarding and notification testing.
- Maintained enterprise services through updates, backups, migrations, debugging and deployment support.

Technologies: Frappe/ERPNext, SQL, Git, Linux, workflow configuration

EDUCATION

Open University of Kenya | Master of Science in Artificial Intelligence - In Progress

Maseno University | Bachelor of Science in Computer Science, 2018 - 2022

Holberton School | Computer Software Engineering, 2023 - 2024

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

ICPAC Youth Climate Leadership & Advocacy Training | "From Climate Science and Risk to Policy, Finance and Action in the IGAD Region"; 5-7 October 2026, Nairobi, Kenya

ALX Africa | AI Career Essentials

HNG Tech | Frontend Web Development