EUGENE OKAKA

fullstack developer

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PROFILE

IT professional and software developer with hands-on experience across backend development, cloud infrastructure, networking, and technical support. I build applications using technologies such as Node.js, NestJS, Next.js, PostgreSQL, Prisma, and AWS, with a strong interest in backend systems, APIs, distributed applications, and DevOps. Alongside software development, I have practical experience troubleshooting networks, managing systems, deploying hardware and software, and supporting enterprise IT environments. Currently pursuing a Diploma in Information Technology at Kabarak University.

WORK EXPERIENCE

IT INTERN — KENYA AIRPORTS AUTHORITY (KAA)

January - April

- Provided technical support for computers, printers, displays, and other ICT equipment within the airport environment.
- Troubleshot network connectivity and assisted with switches, VLANs, Layer 3 networking, firewalls, and IP access controls.
- Worked with AWS EC2 and VPC, gaining practical experience with cloud infrastructure and networking.
- Worked with Linux systems alongside Windows environments for system configuration and troubleshooting.
- Supported Flight Information Display System (FIDS) computers and related airport technology infrastructure.

EDUCATION

kabarak University

2024 - 2026

Diploma in Information Technology

SKILLS

Full-Stack Development

- Next.js
- React
- TypeScript
- JavaScript
- HTML5 & CSS3
- Responsive Web Development
- REST API Integration
- Full-Stack Application Architecture

Cloud & DevOps

- AWS EC2
- AWS S3
- Linux/Ubuntu
- Nginx
- PM2
- Docker
- Git & GitHub
- CI/CD
- Domain & SSL Configuration

Networking & IT Infrastructure

- Network Troubleshooting
- TCP/IP & VLANs
- IP Addressing
- Access Points & Network Switches
- Printer/Peripheral Troubleshooting
- Hardware & Software Troubleshooting

projects

N**otes App — Full-Stack Collaborative Knowledge Platform**

- Built a full-stack note-taking platform with a rich-text editor supporting formatted content, image uploads, drawings, and video uploads.
- Implemented an AI chatbot using RAG (Retrieval-Augmented Generation) to answer questions using the user's notes and stored content.
- Built hybrid search combining PostgreSQL GIN-indexed full-text search with fuzzy matching for improved search results.
- Implemented real-time collaboration and updates using Ably.
- Developed the application using Next.js, NestJS, PostgreSQL, Prisma, and TypeScript.

AI CSV Analyser — AI-Powered Data Analysis Platform

- Built an AI-powered platform that allows users to upload CSV datasets and interact with their data using natural-language prompts.
- Implemented an AI agent pipeline capable of generating and executing Python/Pandas analysis workflows based on user requests.
- Added worker-based job processing to handle data-analysis tasks independently from the main API.
- Implemented automated generation of data transformations, CSV outputs, statistical analysis, and Matplotlib visualizations.
- Integrated Amazon S3 for image and generated-visualization uploads.
- Built with Next.js, FastAPI, Python, Pandas, Matplotlib, PostgreSQL, S3, and LLM integration.

CloudStuff — Cloud Storage Application

- Built a cloud-based file/object management application around Amazon S3.
- Implemented object operations including upload, retrieval, update, and deletion.
- Configured AWS storage and application access using IAM permissions and S3 bucket policies.
- Worked with cloud storage APIs and AWS infrastructure to understand practical object-storage architecture.