

Elochukwu (Gerald) Okafor

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Summary

I'm a software engineer with experience working across the stack, most especially in back-end and applied Machine Learning systems, using modern software tools and technologies.

Education

University of Lagos, UNILAG, BSc. in Computer Science – Lagos, Nigeria Sept 2023 – present

- GPA: 4.88/5.00, First Class
- **Relevant Coursework:** Discrete Mathematics, Data Structures, Computer Organization and Architecture, Operating Systems, Concurrent Programming.

Experience

Backend Engineering Intern, FlexiSAF EduSoft – Remote, Lagos Sept 2025 – Dec 2025

- Developed a diabetic retinopathy detection backend that connects to an internal ML prediction microservice
- Designed and documented REST APIs in Spring Boot for auth, token management, and retinopathy prediction
- Implemented stateless JWT authentication with automated expired token cleanup via cron jobs
- Deployed full stack on DigitalOcean VPS using Docker, Postgres, Redis, and Traefik via Coolify
- Built CI/CD pipeline with GitHub Actions for automated containerized deploys on push to main

Backend Engineer, FreshBox (Early Stage Startup) – Remote, Lagos May 2025 – Aug 2025

- Set up role-based access control with JWT auth and granular permissions for vendors, customers, and admins
- Maintained 90%+ test coverage with test-driven development across the core service and API layers
- Built three CI/CD pipelines using Docker, cutting deployment time by 75% across staging and production
- Set up monitoring with Grafana dashboards, Prometheus for metrics, and Sentry for error tracking

Software Engineering Intern, NitHub – Remote, Lagos Apr 2024 – Dec 2024

- Developed a path finding web application which uses A* search for popular locations at my university
- Built a File System web API using pure Javascript and advanced concepts using data buffers
- Worked on group backend and frontend projects, including a dockerized kanban task management web application

Projects

LagGraph Sept 2024 – Oct 2024

A* search path finding system for popular locations in UNILAG

- Developed a custom path finding software for select locations in Unilag
- Implemented a mobile responsive frontend in Next.js and Tailwind.

NoteRepo Apr 2024 – Sept 2024

Open-source academic resource sharing platform

- Developed file uploads supporting PDF and image document formats
- Deployed containerized services with Redis server side caching and PostgreSQL query optimization
- Built secure authentication system with JWT tokens and role-based access control

Skills

Languages: Python, Go, TypeScript, JavaScript, Java

Frameworks: Node.js stack (Express, Nest.js), Django, FastAPI, SpringBoot

Infrastructure & Cloud: Docker, Kubernetes, Amazon Web Services, Digital Ocean

Databases & Other: PostgreSQL, MySQL, MongoDB, Redis, GraphQL, Celery

Certifications & Volunteering

- Mathematical Thinking in Computer Science, UC San Diego, with Honors (2024)
- Nithub HatchDev 2.1 Training Cohort (2024)
- Provided mentorship to select NitHub 3.1 training interns.