

# ADENIYI ADEBOWALE

**Software Designer & Engineer** | Building Scalable Systems, APIs & Backend Infrastructure

[niyi.py@gmail.com](mailto:niyi.py@gmail.com) | [neyfrosh.vercel.app](https://neyfrosh.vercel.app)

[LinkedIn.com/in/neyfrosh](https://LinkedIn.com/in/neyfrosh) | [GitHub.com/niyiroyce](https://GitHub.com/niyiroyce) | [Medium.com/@niyi.py](https://Medium.com/@niyi.py)

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## PROFESSIONAL SUMMARY

Backend-focused Software Engineer with experience building **scalable**, and high-performance (**enterprise**) systems across multiple industries. Proven record of designing secure **payment systems**, fault-tolerant applications and APIs used in production. Strong foundation in distributed systems, concurrency, and cloud deployment. Passionate about clean architecture, **DevOps** automation, and developer productivity.

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## TECHNICAL SKILLS

**Languages:** Python, TypeScript, SQL, Java, Javascript

**Backend:** FastAPI, Django, Node.js, Express

**Databases:** PostgreSQL, MongoDB, Redis

**DevOps/Cloud:** Docker, AWS (EC2, S3, Redshift), Git, CI/CD, systemd

**Payment Gateway:** Stripe, Razorpay, Paypal

**Automation:** N8N, Zapier

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## PROFESSIONAL EXPERIENCE

### PetroConsult Energy Uk – Remote

**Software Developer** | Nov 2025 – Present

- Enhanced PetroConsult's WordPress site by configuring performance-focused plugins with caching and media optimization, cutting average load time from 3.8s → 2.5s (~34% improvement).
- Architect-ed the PetroCourse e-learning platform with domain -driven implementation and fully responsive multi-vertical pages, improving mobile engagement by 28% and increasing course page click-through by 52%.
- Designed backend schemas for users, courses, bookings, and lead data, reducing content-update time for non-technical staff by 30%.
- Integrated Stripe, Unipay to manage payment gateways and improve seamless transaction by 80%
- Modularized automation flows using Zapier, eliminating 6–10 hours/week of repetitive administrative tasks and reducing booking-related errors by 40%

### Algorithmic Science USA – Remote

**Software Engineer** | Aug 2025 – Nov 2025

- Created a Python multi threaded TCP server, lowering query latency by 80% while handling over 200,000 records per query.
- Designed full-text search algorithms, increasing search speed by 1,000% versus standard tools.
- Secured service communication with SSL and pre-shared keys, eliminating unsecured connections.
- Automated deployments using systemd and Linux daemons, reducing manual deployment time by 60% and enabling faster release cycles.
- Maintained 90%+ test coverage, including integration tests across 15+ services.

### SellFastPayFast Qatar – Remote

**Full Stack Engineer** | Feb 2025 – Jul 2025

- Delivered a cryptocurrency trading platform supporting 100+ trades per minute using Node.js, TypeScript, and MongoDB.
  - Managed backend systems for 10,000+ concurrent user sessions with average response times under 200ms.
  - Integrated CoinGecko API with retry logic, achieving 99.9% data availability.
  - Implemented Twilio live chat, cutting customer support response time by 50%.
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## PROJECTS

### Distributed File Search Engine | *Python, PostgreSQL, Docker*

- Built a scalable full-text search system over TB-sized datasets with custom indexing & async I/O
- Supported 1,000+ concurrent sessions with Dockerized microservices
- Outperformed traditional OS tools (e.g. grep, locate) by 10x in search speed

### Trading Portfolio Optimizer | *Python, Pandas, Scikit-learn*

- Developed a simulation-driven portfolio tool using **Monte Carlo & Kelly Criterion**
  - Reduced compute time by 80% using **async logic** and in-memory caching
  - Delivered API-ready optimization service used by mock trading community
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## EDUCATION

University of Lagos

B.Sc., Engineering

Relevant Courses: Data Structures, Databases, Software Design, Modelling and Simulation

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## CERTIFICATIONS

- Agile Development — Coursera
- Software Architecture — Pluralsight