

ADENIYI ADEBOWALE

Software Engineer | Building Scalable Systems, APIs & Backend Infrastructure

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with experience building scalable, high-performance systems in Python, Node.js, and TypeScript. Proven record of designing secure, 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.

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, Java

Backend: FastAPI, Django, Node.js, Express

Databases: PostgreSQL, MongoDB, Redis

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

Testing: Pytest, Postman, Jest

Other: REST APIs, Multithreading, Async Programming, Caching, Linux

PROFESSIONAL EXPERIENCE

Algorithmic Science – Remote

Software Engineer | Aug 2025 – Present

- Engineered a high-performance, multithreaded TCP server in Python, cutting query latency by 80% across 200K+ file records
- Developed custom full-text search algorithms, delivering 10x faster performance compared to conventional tools
- Secured service-to-service communication using SSL encryption and pre-shared keys, enhancing system integrity
- Automated deployment workflows with systemd and Linux daemons, reducing operational overhead by 60%
- Achieved 90%+ test coverage and implemented integration tests for complex, cross-service workflows

SellFastPayFast – Remote (Qatar)

Full Stack Engineer | Feb 2025 – July 2025

- Built a real-time cryptocurrency trading platform using Node.js, TypeScript, and MongoDB
- Implemented core backend services for trade execution, user session management, and portfolio tracking
- Integrated external APIs (e.g., CoinGecko) with resilient retry logic and failure handling, improving data reliability
- Designed and deployed a live chat system with Twilio, decreasing customer support response time by 50%

AdQuizzer – Remote

Software Engineer – Data Systems | Aug 2023 – Sep 2024

- Developed scalable backend pipelines for ingesting and transforming ad campaign data using FastAPI

- Built custom NLP models to automate content tagging and compute user sentiment scores, improving ad targeting precision
 - Created automated analytics and reporting APIs leveraged in executive dashboards, streamlining business intelligence
 - Deployed optimized ETL pipelines and caching strategies, increasing system throughput and reducing latency
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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 — Nigeria

B.Sc., Engineering | Graduated: Jan 2025

Relevant Courses: Data Structures, Databases, Software Engineering, Statistics

CERTIFICATIONS

- Data Engineering Foundations — *Coursera*
- Agile Development — *Coursera*