

ADEBOWALE ADENIYI

Software Engineer | Backend & Data Systems

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WORK EXPERIENCE

Algorithmic Science – Remote

Software Engineer | August 2025 – Present

- Built a multi-threaded TCP server in Python, reducing file search latency by 80% over 200K+ rows
- Developed full-text search algorithms with 98% precision on large datasets
- Secured transmission with SSL (PSK, self-signed certs) for end-to-end encryption
- Automated deployment with systemd/Linux daemons, cutting manual steps by 60%
- Achieved 90%+ test coverage with Pytest, ensuring high code reliability

SellFastPayFast – Remote, Qatar

Full Stack Developer | February 2025 – July 2025

- Engineered a real-time crypto trading app with TypeScript, Tailwind, and Node.js
- Integrated CoinGecko API and MongoDB for live market data and user transactions
- Built live chat with Twilio, reducing average support response time by 50%

AdQuizzer – Remote

Data Engineer | August 2023 – September 2024

- Created an NLP pipeline using LSTM and RNN models to analyze sentiment, improving insight quality by 45%
- Developed ETL pipelines for financial data ingestion, cutting report generation time by 50%
- Delivered executive dashboards via Tableau, accelerating strategic planning by 25%

PROJECTS

Distributed File Search Engine

Technologies: Python, PostgreSQL

- Built scalable full-text search over terabyte-sized datasets with custom indexing
- Outperformed OS-level tools by 10x in speed; handled over 1,000 concurrent sessions using Docker

Trading Portfolio Optimizer

Technologies: Python, Pandas, scikit-learn

- Implemented Kelly Criterion and Monte Carlo simulations for portfolio optimization
- Ensured sub-second API responses through asynchronous logic and caching strategies

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, Java, R

Frameworks: Node.js, React, Django, Express.js

Databases: PostgreSQL, MongoDB, Snowflake

DevOps: Docker, Kubernetes, Git, Linux, CI/CD, systemd

Cloud: AWS (Redshift, EC2), Azure

Tools: Pytest, Tableau, Airflow, Power BI

EDUCATION

University of Lagos – Nigeria

Bachelor of Science in Engineering | January 2025

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

CERTIFICATIONS

Google Analytics (Skillshop)

Agile Development (Coursera)

Risk Analysis (AIChE)