

DAVID DADA

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EDUCATION/CERTIFICATIONS

University of Lagos: Lagos, Nigeria *Bachelor of Science, Computer Science*

SKILLS

Programming Languages: Golang, Nodejs(TypeScript), Rust, JavaScript, PHP, llvm(C++)

Tools: Kubernetes, Kafka, Apache Airflow, Clickhouse, Postgresql, Mysql, GraphQL, Mongodb, Terraform, Docker, Redis, RabbitMQ, Github workflows, LLVM (C++)

Frameworks: Gin, Fibre, ExpressJs, NestJs, Laravel

Cloud: AWS (S3, EC2, IAM, RDS, RedShift, SQS), GCP (Compute Engine), Azure.

EXPERIENCE

Backend & Data Engineer (Blockchain)

Terrace, United States.

JANUARY 2025 - PRESENT

- Designed the Architecture and built a decentralised cross-chain data ingestion pipeline processing daily, structuring Solana market pools into order books and trading metrics.
- Built services to ensure balance synchronisation of users' wallets both on-chain and off-chain.
- Implemented a finite state machine trade machine to ensure a safe and deterministic flow of trade execution for users.
- Integrated time-series databases (timescale) and Redis for optimised real-time analytics and historical trend analysis, reducing end-to-end data processing latency by 70% and driving 99.9% accurate trading insights
- Worked on building order books from Solana CLMM and AMM pools
- Engineered a blockchain security microservice using GoPlus API to monitor smart contracts, detect and blacklist malicious tokens in real-time, provide metrics, and deliver WebSocket alerts with risk analysis for enhanced DeFi protection.
- Lead the designing and building of Solana trades and transactions execution, ensuring security and low latency for user experience using Bloxroute.
- Pair programmed with my peers to improve the performance of ETL pipelines for Solana markets, improving ingestion rates by over 70%.

Software & DevOps Engineer

Backend, Nithub Lagos, Nigeria University of Lagos

JULY 2022 - PRESENT

- Handled DevOps operations by provisioning servers, configuring proxies and enabling secure access to the company's databases.
- Provided intensive mentorship to over **200** students and interns, covering advanced topics in data structures, algorithms, system design, database architecture, API development, and core backend principles
- Conducted comprehensive code reviews, delivering expert technical guidance to junior developers, resulting in a **40%** improvement in code quality and cultivating a continuous learning and enhancement culture.
- Engineered a subscription platform enabling users to choose desired features for our AI exam grading product.

Backend Engineer

Udux,

AUGUST 2023 - JANUARY 2025

- Developed an ETL pipeline to migrate data from PostgreSQL to MongoDB, utilising advanced transformations to enhance data quality by **89%**, with robust validation processes ensuring zero data loss and seamless integration.
- Redesigned server architecture, improving scalability by **76%**, handling high workloads and minimising downtime.
- Integrated payment gateways (Stripe, Paystack), streamlining user transactions by **50%**.
- Spearheaded the development of a custom OAuth 2.0 provider, achieving enhanced security measures during authentication via SSO connections to external services while collaborating closely with cross-functional teams throughout the project timeline.

Senior Backend Engineer

SlideScribeAI (Microsoft ADC),

FEBRUARY 2023 - MARCH 2024

- Extracted and processed multi-source information, including audio and documents, using Azure Document Intelligence, generating contextual notes with 70% accuracy and enabling more efficient information retrieval and analysis.
- Deployed slide content generation with Azure OpenAI, improving slide quality by **60%**
- Led translation of educational content into three Nigerian indigenous languages and implemented a Firebase Notification system, increasing platform event interactions by **73%**.

Backend & DevOps Engineer (Contract)

Curaboard,

MAY 2024 - JULY 2024

- Executed a successful domain name migration from 'Wishpo' to "curaboard," utilising GoDaddy for DNS management and AWS Amplify, resulting in seamless access recovery within **24 hours post-migration**.
- Generated SSL certificates, ensuring encrypted data transmission and significantly enhancing application security, leading to a **100%** improvement in safeguarding user information.

Projects & Open Source Contribution

Mathematical Expression Parser

- Implemented a mathematical expression parser and evaluator using `c#`
- Implemented precedence checking and used recursive descent algorithm for parsing

Racson

- Building a programming language using Go and llvm.
- Wrote tests for all statements and expressions.

Minired

- Engineered a high-performance concurrent cache database server using **Golang**, integrating RESP and Pub-Sub support. Achieved uptime across multi-cluster environments while optimising for persistent storage requirements.
- It has built-in transaction support for queued commands from the clients.
- I containerised the application using Docker for easy development and deployment.

Orchestra

- I architected and implemented a workload orchestration system from scratch using **Golang**.
- I crafted an API Server using Gin to submit workloads to the worker node.
- I implemented monitoring and profiling of the worker nodes using pprof and the Linux proc filesystem.

DiceDb

- Implemented tests for the HTTP server of DiceDb, ensuring it handles all RESP commands effectively using **Golang**.
- Optimised the test suite of the HTTP server of DiceDb, ensuring the HTTP server starts independently of the RESP server during the test.

VOLUNTEERING

Technical Instructor, Nithub Lagos, Nigeria University of Lagos

- Provided intensive mentorship to over 200 students and interns, covering advanced topics in data structures, algorithms, system design, database architecture, API development, and core backend principles
- Conducted comprehensive code reviews, delivering expert technical guidance to junior developers, which resulted in a 40% improvement in code quality and cultivated a culture of continuous learning and enhancement.
- Engineered a subscription platform enabling users to choose desired features for our AI exam grading product.

Development Team Lead, Engineering Career Expo

- Led a team of over 10 people with various expertise to build in-house and public-facing products for the community.
- Developed a mail-management playground to send customized and targeted mail to over 1000 students.
- Led a team of 6 to build a url-shortener which improved the community brands by 100% on all social platforms.
- Delegated responsibilities and performed code reviews for backend applications improving 3 developers' skill sets in the team.