DAVID DADA

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EDUCATION/CERTIFICATIONS

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

Relevant Courses: Data Structures and Algorithms, Operations Research, Operating Systems, System Design, Networking.

SKILLS

Programming Languages: Typescript, JavaScript, Golang, PHP.

Tools: PostgreSQL, MySQL, GraphQL, MongoDB, Terraform, Docker, Kubernetes, Redis, RabbitMQ, Github workflows.

Technical Skills: Problem-solving, Data Structures and Algorithms, Performance Optimization, ETL, Distributed Systems, Networking.

Frameworks: NodeJs, ExpressJs, NestJs, Gin, Fibre

Cloud: AWS (S3, Ec2, IAM, RDS, RedShift, SQS), GCP (Compute Engine), Azure.

EXPERIENCE

Blockchain & Backend Data Engineer

Terrace, United States.   **PRESENT**

- Designed the Architecture and built a decentralized, blockchain-powered data ingestion pipeline that processes over 1TB of raw blockchain transaction data daily, transforming it into structured real-time assets, order books, and quotes for market analysis and trading.
- Integrated time-series databases (timescale) and Redis for optimized real-time analytics and historical trend analysis, reducing end-to-end data processing latency by 70% and driving 99.9% accurate trading insights
- 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.

Backend Engineer

Udux,   AUGUST 2023

- Developed an ETL pipeline to migrate data from PostgreSQL to MongoDB, utilizing 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 minimizing 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.

Lead 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 the 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 migration of the domain name from 'Wishpo" to "curaboard," utilizing 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.
- Developed a custom OAuth 2.0 provider streamlining user authentication via Single Sign-On (SSO) with external OAuth 2.0 providers.
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Backend Engineer (Contract)
Kolhab Technologies JANUARY 2023 - MARCH 2023
- Developed the schedule management between merchants, tutors, and students by integrating third-party APIs such as **Calendly** which upgraded the user experience by **100%.**
- I Ensured the authentic identity of the merchant by integrating the **VerifyMe** webhook for customers' **KYC** verification reducing fraud by **40%.**
- Created a job board tracking feature that influenced clear business decisions by **39%** by tracking where job applicants are located.

Projects

Search Engine
- Executed a search engine from scratch using an inverted index and ranking algorithms, optimising for relevance and scalability. Promoted large dataset handling **over 10 records**, achieving a **70%** increase in search efficiency.

Minired
- Engineered a high-performance concurrent cache database server using **Golang**, integrating RESP and Pub-Sub support; achieved uptime across multi-cluster environments while optimizing 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
- Architect and Implemented a workload orchestration system from scratch using Golang.
- I crafted an API Server using **Gin** to submit workloads to the worker's node.
- I implemented monitoring and profiling of the worker nodes using **pprof** and **Linux proc filesystem.**

DiceDb
- Implemented tests for the http server of diceDb ensuring it handles all RESP commands effectively using **Golang.**
- Optimized the test suite of HttpServer of DiceDb ensuring the http server starts independently of the RESP server during the test.

FinTeeek
- I established a payment platform for users to make transactions via paystack using **Golang and deployed it on Digital Ocean**.
- Designed the application UI using **Reactjs/Nextjs.**

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.

Development Lead, **Cybtracy**
- Led a team of frontend, backend, and full-stack engineers to build the Cybtracy web app which enhanced the community online presence by **100%**
- Spearheaded the admin and user application architecture with both frontend and backend engineers which made the development experience smooth.

Competitions Lead, **Github Campus Expert**
- Hosted Hacktoberfest for the community bringing over **15 students** into the open-source world.
- Spearheaded the design and development of DevZen which improves developers' experience by **100%**
- Collaborated with over 5 teams to hold the biggest algorithm hackathon in Unilag, Nigeria with over **400** attendees.