Lagos, Nigeria
Linkedin

Ayomide Wilfred Adeyemi

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Portfolio

I am a **back-end** software engineer with additional expertise in DevOps. With over 4 years of experience, I have worked with startups on diverse projects, ranging from web RESTful APIs to asynchronous microservices and modern cloud-native deployments. Proficient in Node.js development using various frameworks, I have also led and mentored multiple development teams, helping them deliver successful projects while enhancing their software engineering practices.

Work Experience

Software Engineer	**Verify Your Customer**	**Feb 2025 – Present (Contract)**
Backend team	Lagos, Nigeria	

- Developed the Verify Your Customer (VYC) backend application, a document verification system for businesses, and deployed both the backend and frontend on Digital Ocean.
- Implemented role-based access control (RBAC) for different user permissions.
- Configured **Multer** for handling business registration documents uploads, and integrated **DigitalOcean Spaces (S3)** for secure, scalable storage. Implemented functions to upload, update, and delete images/documents in S3 buckets efficiently.
- Implemented **Stripe payment processing** to enable users to purchase subscription plans, supporting multiple models (**PAY-AS-YOU-GO, PREMIUM**) with automated **billing cycles, plan upgrades, and cancellations**.
- Integrated **Nodemailer** for sending verification emails, OTPs, and notifications, utilizing the **Mustache templating engine** for dynamic and customizable email content.
- Developed an endpoint to receive NFC data captured by the Verify Your Customer NFC mobile app, process it using integrated AI, and deliver verified, authenticated data to users.

Software Engineer	**Uwana Energy**	**June 2024 – December 2024**
Backend team	Lagos, Nigeria	

- Developed a recommendation algorithm that matches solar packages to customers based on appliance choices, usage hours, and energy requirements, ensuring optimal solutions tailored to their specific needs.
- Designed and Built and optimized financing features, including loan history tracking, lender applications, and payment schedules, while integrating Paystack payment APIs with auto-populated email fields for seamless transactions.
- Implemented file upload functionality with **AWS S3** for secure and scalable media storage, ensuring compliance with access controls and automatically deleting old files before replacements to maintain storage efficiency.
- Created comprehensive reporting features, generating analytics for leads, installations, referrals, and packages by owner, location, lender, and source, to support statistical dashboards.
- Designed and developed the referral system API, enabling tracking of referrals, reward calculations, and token redemptions.
- Integrated backend services with **Flowise AI chatbots**, enabling automated support and sales recommendations.

Software Engineer	**Sokozuri Africa**	**August 2023 - Present**

Backend team   Lagos, Nigeria

- Designed database model for the Sokozuri e-commerce website, including customer, vendor, product, and admin features, ensuring efficient data management and scalability for a multi-role platform
- Developed a seamless payment processing system, integrating Paystack payment gateways to facilitate smooth and secure transactions, improving transaction success rates by 25% and reducing payment-related issues by 15%.
- Developed a chat application to facilitate seamless communication between customers and vendors, enabling efficient order management and resolving customer inquiries 30% faster, leading to a 20% improvement in overall customer satisfaction.
- Developed a robust image upload and management system for **customer product images** and **vendor documents** using **S3 bucket** for scalable storage. The system supports features such as image validation, resizing, and storage optimization, ensuring efficient upload, storage, and retrieval.
- Integrated the Kwik API to automate and manage delivery processes, enhancing logistics efficiency and reducing operational overhead by 20%, leading to faster delivery times and a 15% decrease in delivery-related costs.
- Implemented **Redis caching** to optimize API response times, reducing redundant database queries and improving performance.
- Collaborated closely with frontend developers to integrate **RESTful APIs** into the frontend, ensuring a cohesive and user-friendly experience.
- Deployed the **frontend and backend applications on DigitalOcean**, set up and managed the **PostgreSQL database**, and configured **DigitalOcean Spaces** for scalable storage.

Software Developer   **Nupat Technologies**   **Sep 2022 – Feb 2023**
Backend team   Lagos, Nigeria

- Contributed to the Nupat E-learning platform by designing the database schema and leading backend development, integrating third-party services such as payment gateways and authentication providers.
- Mentored interns at Nupat Technologies, guiding them in setting up codebases, managing databases, configuring cloud environments, implementing DevOps practices, and adhering to software development principles.
- Built features and fixed bugs on Ulego Finapp, including integrating secure payment gateways using Vee-bank, developing user authentication and authorization systems, optimizing transaction processing, and implementing financial reporting tools, ensuring high security and regulatory compliance.

Software Developer   **Qoinpal**   **May 2021- July 2022**
Backend team   Remote

- Developed and maintained high-performance web applications, implemented robust backend functionalities and APIs.
- led a team of engineers in building fiat-to-crypto transactions and accepting crypto payment, handled rewards through staking and database management, optimized database schemas and queries, resulting in a 20% reduction in response time..
- Spearheaded a cross-functional engineering team in developing innovative fiat-to-crypto transaction and crypto payment solutions. Optimized database schemas and queries to enhance performance and scalability while overseeing reward distribution through staking and meticulous database management.
- Designed and implemented a high-performance microservice for seamless generation and management of Bitcoin and Ethereum wallet addresses. Integrated robust security measures, including encrypted key storage and secure API endpoints, to ensure data integrity and compliance with industry standards. Optimized the service for scalability, enabling support for high transaction volumes and real-time address generation.

Technologies and Languages

- Languages: JavaScript, TypeScript, Node.js, Python

- Storage: MySQL, Postgres, MongoDB, S3, Redis
- Orms: Sequelize, Prisma, Mongoose, sqlalchemy
- Platforms: Azure, Docker, Amazon Web Services (AWS), Digital Ocean, Vercel, Heroku, Notion.
- Frameworks: Express, Nest.js, FastAPI, , Multer.
- Payments: Paystack & Stripe API integration
- Tools: Postman, Git

Education and Certifications

● **B.Eng. Electrical and Electronics Engineering,** Kwara State University, Nigeria.	**2018 – 2022**
● <u>**Quantium Software Engineering**</u> - <u>Quantium</u>	**2024**
● <u>**AWS APAC Solutions Architecture**</u>	**2024**
● <u>**Azure Kubernetes Service**</u> - <u>KodeKloud</u>	**2024**
● <u>**Cisco Software Engineering**</u> - <u>Cisco</u>	**2022**
● <u>**Accenture North America Virtual Coding Experience**</u> - <u>Forage</u>	**2022**

Projects and Blogs

- **IP-Analyzer-** IP Analyzer is a tool that provides users with essential information about their public IP address and latency details, empowering them to make informed decisions. Designed with scalability in mind, the system's modular architecture enables seamless integration of new data points as needed, future-proofing its capabilities. See the source on <u>Github</u>.
- **USDC-to-Naira -** Designed and developed a project on Stellar, a decentralized, public blockchain, to create seamless, cash-like transaction experiences. Harnessed Stellar's benefits, including rapid, cost-effective, and eco-friendly transactions, to drive tangible real-world impact. See the source on <u>Github</u>.
- <u>How to build a QR code generator for Urls with Node.js, Next.js, and azure blob storage</u>
- <u>How to run a postgres database in azure kubernetes service and integrate it with a Node.js express application</u>
- <u>A guide to connecting to postgresql with supabase and sequelize orm</u>.

Interests

- **Artificial Intelligence and Machine Learning** – Passionate about building intelligent systems and exploring AI's transformative potential across industries.
- **Microservices Architecture –** Advocating for modular, maintainable system designs for seamless deployment and scaling.
- **DevOps and CI/CD Pipelines** – Committed to automating workflows and ensuring seamless development-to-production transitions.
- **Software Design Patterns** – Leveraging proven design principles for building robust, maintainable software solutions.
- **Serverless Architectures** – Exploring the potential of serverless technologies for cost-effective, event-driven solutions.
- **Exploring Blockchain Technology** – Staying updated on the latest advancements and innovations in decentralized finance and blockchain ecosystems.
- **IoT and Smart Devices** – Enthusiastically exploring the intersection of software and hardware in building connected systems for smarter living.