Yusuf Lawal

Software Engineer
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SUMMARY

Software engineer experienced in shipping production web applications across the MERN and Next.js/FastAPI stacks. Skilled in RESTful API design, real-time systems with WebSockets, and AI engineering relational/vector databases, with a track record of owning products from architecture through deployment.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python
Databases: SQL
Practices: Agile Development

PROFESSIONAL EXPERIENCE

Software Engineer- Indie Dev *Dec 2024 - Present*

- Engineered an enterprise multi-tenant attendance management platform enabling custom domain mapping and isolated tenant environments for universities and colleges
- Built a dual-channel renewal reminder system - email (Resend) and push (Web Push/VAPID) - triggered by scheduled jobs (cron-job.org), warning users before charges hit.
- Engineered BiteFlow, a real-time ordering platform syncing a 5-stage order pipeline across customer, kitchen, and waiter dashboards via Express/Socket.IO with zero manual polling.
- Automated website QA with a Node.js CLI link-checker using concurrent BFS crawling and robots.txt compliance, enabling one-command detection of broken links as a CI/CD deployment gate.
- Owned Bleed end-to-end as an independent build - product decisions, data architecture, and deployment - turning a concept into a live, pitch-ready SaaS product.

Software Engineer - IMTC, Osun State University *Dec 2024 - Aug 2025*

- Architected a QR-based attendance data pipeline that became the foundation for a predictive model forecasting student performance with 85% accuracy.
- Built and shipped a web application surfacing these predictive insights to educators, partnering with senior engineers to scale it institution-wide.
- Administered Linux server infrastructure using Docker containerization to support scalable model training and deployment environments.

Software Engineer - OIC Hub Limited *Jun 2023 - Nov 2024*

- Delivered end-to-end web applications using the MERN stack (MongoDB, Express.js, React, Node.js), prioritizing scalability, performance, and maintainability.
- Built production systems ranging from predictive engines to voice-controlled navigation interfaces across the full stack.
- Managed Linux-based development and deployment workflows, including system configuration and debugging.

KEY PROJECTS

Rolltick *(Subscription-Tracking SaaS Platform)* *Live*

Rolltick is a multi-tenant attendance management system for universities, polytechnics and colleges: one platform, with a private site for each institution. It replaces paper registers and sign-in sheets.

- Engineered an enterprise multi-tenant attendance management platform enabling custom domain mapping and isolated tenant environments for universities and colleges.
- Digitized campus-wide administrative workflows by replacing physical sign-in sheets with dynamic QR code verification, role-based access control (RBAC) across five institutional tiers (Admin, Dean, HOD, Lecturer, Student), and real-time attendance compliance tracking.

Bleed *(Subscription-Tracking SaaS Platform)* *Live*

A subscription-tracking app that removes the manual work of logging what you pay for, and proactively reminds you before you get charged again. You get a dedicated inbox address. You forward a subscription receipt, or just email your subscription details in plain natural language

- Took Bleed, a subscription-tracking SaaS product, from architecture through production deployment on Railway, giving users one place to track subscriptions and catch unwanted charges.
- Solved for launch readiness beyond the codebase - debugging and polishing the core product, then shipping a marketing landing page, investor overview, and branded SVG illustrations.

BiteFlow *(Real-Time Ordering Platform)* *Live*

A QR-based restaurant ordering system that lets customers scan a table code and order directly, with everything routed live to kitchen and staff.

- A login-free, table-scoped QR ordering flow on an Express + Socket.IO backend, letting customers browse, order, and request assistance directly from their phones.
- Synced order, table, and payment status in real time across three dashboards, replacing manual order-taking with zero polling.

Checker *(Broken Link Detection CLI)* *GitHub* npm

A Node.js command-line tool that crawls a website; local or live and identifies broken links across its pages. You point it at a URL, and it systematically fetches each page, extracts every link, pings them for a valid response, and reports back what's broken, redirected, or dead all in real-time directly in your terminal.

- Crawler with BFS traversal, concurrent HEAD/GET requests, robots.txt compliance, and binary asset detection to classify broken, redirected, and dead links.
- Packaged as a scriptable CLI with structured JSON reporting, usable as a CI/CD gate to block deployments with broken links.

Text Predictor*(N-gram powered text prediction system)* *Live*

A next-word prediction system built around an N-gram language model trained on WikiText-103.

- Trained an N-gram pipeline, tuned the prediction flow for practical suggestions, and wrapped it in a lightweight interface that reacts as the user types.
- Trained on WikiText-103, real-time next-word suggestions, and lightweight interface for instant feedback.

EDUCATION

B.Sc. Computer Science
Osun State University, Nigeria