

Yusuf Lawal

Software Engineer

lawalyusufimp@gmail.com | github.com/initysl | yusola.pro

SUMMARY

Full-stack 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 relational/vector databases, with a track record of owning products from architecture through deployment.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python

Frontend: React, Next.js, Tailwind CSS, Framer Motion, HTML5

Backend: Node.js, Express.js, FastAPI, RESTful APIs, WebSockets (Socket.IO)

Databases: MongoDB, PostgreSQL, Supabase, Redis

DevOps & Tools: Docker, Linux, Git, CI/CD Pipelines, Railway

Practices: Agile Development, System Architecture, Scalable Application Design

PROFESSIONAL EXPERIENCE

Software Engineer- Independent Projects *Dec 2024 - Present*

- 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

Bleed (*Subscription-Tracking SaaS Platform*) [Live Demo](#)

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 Demo](#)

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.

Mnemonic (*Full-Stack Knowledge Management App*) [Live Demo](#)

An AI-Powered Note Management System. Mnemonic turns your notes into a living knowledge base. Write naturally, then ask questions, by text or voice and get precise answers from your own notes

- Architected a full-stack app spanning a Next.js frontend, FastAPI backend, and PostgreSQL/pgvector data layer, supporting full CRUD and natural-language querying via voice or text.
- Implemented source-citation logic so every generated answer traces back to the notes that informed it.

EDUCATION

B.Sc. Computer Science

Osun State University, Nigeria