

IKECHUKWU FRIDAY

SOFTWARE/AI ENGINEER

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PROFESSIONAL SUMMARY

For Ikechukwu, delivering a project's requirements is non-negotiable. With hands-on expertise building scalable systems and integrating AI-driven solutions for real-world business challenges. Able to lead and follow, has management experience and knows how to see a project through all stages of execution. Proven track record in customizing agentic AI models, automating onboarding and training platforms, and delivering robust API and systems integration using Python, JavaScript, and cloud technologies. Optimizing operational workflows, and driving measurable improvements in user experience and business performance.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, Typescript, Node.js, Bash
- Frameworks & Libraries: FastAPI, NestJS, Next.js, LangGraph, Numpy, Matplotlib, Pandas, Scikit-learn
- Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Terraform, GitHub Actions, Cloudflare AI
- Databases: PostgreSQL, MongoDB, Redis, Vector Databases, Pinecone, Pgvector, Firebase
- Messaging & Integration: RabbitMQ, Apache Kafka, REST APIs, GraphQL, Swagger, Postman, Ai-sdk
- Testing & Automation: Jest, Automated Testing, CI/CD Pipelines

PROFESSIONAL EXPERIENCE

Software/AI Engineer | UPLANIT

Remote, UK | 2024 - 2026

<https://timbuktu.kukuana.com>

- Led a team of five engineers to design, build and launch Timbuktu, an AI-powered e-learning platform of short, expert-built courses with a points-based learning and rewards model.
- Architected the platform's AI student-support assistant: first as a RAG pipeline over course documents, then re-architected around MCP so the model(Kimi K3) queries live backend APIs and the database for accurate, personalised answers.
- Designed and maintained robust PostgreSQL schemas and managed migrations to ensure data integrity and high performance across distributed systems.
- Containerized applications using Docker and deployed with Cloudflare, improving deployment consistency and reducing downtime by 35%.
- Set up CI/CD pipelines with GitHub Actions and automated testing, increasing release reliability and reducing bugs by 40%.
- Analyzed user feedback and operational data to guide product improvements and prioritize feature development, resulting in a 30% increase in customer satisfaction.
- Worked with product stakeholders, using learner feedback and usage data to prioritize the feature roadmap.

Senior Software Engineer | Penaid Limited

Lagos, Nigeria | 2021 - 2024

<https://penaid.co/>

- Designed and built the [Node.js](#) backend of a loan-management platform serving 20,000+ pensioners and students, with over \$69 million in loans processed.
- Built event-driven, cloud-based components with AWS SQS and serverless functions, cutting server maintenance cost by 25%.
- Automated borrower onboarding workflows, halving onboarding time.
- Designed the MongoDB data model for loan records, speeding up retrieval and transaction processing.
- Introduced code-review, continuous-integration and automated-testing standards, reducing production bugs by 35%.
- Automated file handling and error logging with Bash scripting, cutting manual intervention by 60%.
- Worked with operations and finance teams to turn lending requirements into technical designs.

Lead Software Engineer | Econnect Netpower Limited

Lagos, Nigeria | 2021 - 2024

- Led backend development using Node.js and PostgreSQL for high traffic applications and mentored junior engineers.
- Migrated legacy systems to a modern [Node.js](#) architecture, reducing maintenance costs by 25%.
- Introduced CI/CD pipelines, cutting development errors by 40% and shortening release cycles.
- Served as the technical point of contact for product and business stakeholders.

PROJECTS CONSULTED

- **[Keysha.ai](#) (Independent Contractor):** Developed an intelligent virtual assistant platform that streamlines scheduling and time management for individuals and corporate managers, leveraging AI-driven automation to boost productivity. (<https://keysha.ai>)
- **GetKele (Independent Contractor):** Built a fintech application enabling seamless money transfers and bill payments, integrating secure transaction processing and user-friendly interfaces. (<https://getkele.com>)
- **DailyBills (Consultant):** Launched a digital platform for bill payments, airtime top-ups, and digital services, providing a fast, transparent, and user-centric solution for managing digital lifestyles. (<https://dailybills.com.ng>)

RESEARCH PROJECT

- **ML-Based DDoS Intrusion Detection System:** Engineered a machine learning intrusion detection system to identify and flag Slowloris behavioral patterns, providing real-time alerts to cybersecurity analysts to mitigate potential DDoS threats.

EDUCATION

B.Sc. Computer Science

Nnamdi Azikiwe University | 2013 - 2017 | Graduated 2017

M.Sc. Cybersecurity

University of Sunderland | 2025 - 2026 | Completed

CERTIFICATIONS

- AWS CERTIFIED CLOUD PRACTITIONER

REFERENCES

AVAILABLE ON REQUEST