

Joseph Ukeje

Software Engineer

+2347087232777 ◇ ukejnjoseph1@gmail.com ◇ Open to Remote ◇ Open to Relocate ◇ LinkedIn ◇ GitHub ◇ Portfolio ◇ Youtube ◇ Secondary porfolio

SUMMARY

Full-stack Software Engineer with 3+ years of experience delivering scalable enterprise applications in fintech, ERP, and SaaS. Proficient in Java, Spring Boot, Node.js, React, Docker, PostgreSQL, and Redis. Experienced in backend development, system integrations, RESTful APIs, and secure authentication systems including LDAP, JWT, and SSO, with Redis-powered caching and session management. Strong in microservices architecture, CI/CD workflows, and cloud infrastructure deployment. Proven ability to lead full lifecycle development from design to production across cross-functional teams, ensuring performance, scalability, and security in mission-critical systems.

EDUCATION

Bachelor of Science in Software Engineering, Babcock University (GPA: 3.93/5.00)

Jan '20 — Jul '24

Ogun state, Nigeria

- Relevant Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning

SKILLS

Languages Python, Java, JavaScript, C#, C++

Backend & Frameworks Node.js, Express.js, Django, Flask, GraphQL, .NET, ASP.NET MVC, Springboot

Frontend & UI React.js, Angular.js, Redux, HTML5, CSS3

Tools & DevOps Git, Bitbucket, TortoiseSVN, Linux, Docker, Flyway, Oracle Weblogic, PuTTY

Cloud & Databases AWS(EC2), GCP, PostgreSQL, MySQL, MongoDB, Azure, Dbeaver, Redis, AWS EKS

CI/CD Jenkins, Kubernetes, JMS, IBMMQ, AMQ, Prometheus, Grafana

EXPERIENCE

Senior Software Engineer

Apr '25 — Present

Interswitch

Lagos, Nigeria

{Java, Spring Boot, ReactJS, JavaScript, PostgreSQL, Redis, MongoDB, Docker, Oracle WebLogic, IBM MQ,

LDAP, Flyway, JUnit, Mockito, PowerMock, Git, Bitbucket, Jenkins, Veracode, Postman, DBeaver, Agile}

- **Architected and deployed enterprise-grade Identity and Access Management (IAM) systems** with LDAP, multi-tenant onboarding, and advanced authentication/authorization, cutting onboarding time by **50%** while strengthening enterprise security.
- **Designed and scaled Spring Boot microservices** for onboarding, modification, approvals, and lifecycle management, streamlining ERP-driven operations and improving efficiency by **70%**.
- **Developed secure APIs and SWIFT message flows** integrated with ERP and IBM MQ, boosting transaction throughput by **40%** while ensuring full compliance with global banking protocols.
- **Optimized resilience with Redis caching, retry/error handling, and audit logging frameworks**, reducing downtime by **60%** and enabling end-to-end fraud prevention and regulatory traceability.
- **Led enterprise deployments using Docker, WebLogic, and Veracode remediation**, resolving **100%** of high-severity vulnerabilities (CRLF, cipher misconfigs, directory traversal) and hardening infrastructure for Tier-1 banks.
- **Developed PostgreSQL and Flyway migration scripts** for auditing, reconciliation, and validation, improving data accuracy by **35%** and aligning GMV reporting across ERP and affiliate portals.
- **Designed and developed an AI-powered knowledge-based chatbot** for enterprise customer support at Interswitch, leveraging NLP models and contextual search to automate responses, which **reduced support ticket volume by 40%** and improved response times by **60%**.

Software Engineer

Jan '25 — Apr '25

Huawei Technologies

Nigeria

{ReactJS, JavaScript, Bootstrap, Python, Django, Docker, C, Git, Agile, Node.js, AWS, Vue.js, Jest, Postman}.

- **Redesigned and rebuilt an internal Tech Community application** leveraging ReactJS, Node.js, and AWS services, delivering a **30% increase in user satisfaction** and significantly enhancing platform functionality.
- **Developed advanced React components** and implemented **comprehensive testing strategies** using Jest and Postman, accelerating development velocity by **20%** and achieving a **95% bug-free release rate**.
- **Designed and implemented a Cash Catalogue feature** using Vue.js, enabling installers to seamlessly redeem rewards (vouchers, tools, etc.), which greatly **improved user engagement and overall experience**.
- **Optimized front-end architecture** and integrated CI/CD pipelines with Jenkins and Git, cutting build times by **25%** and ensuring faster, more reliable deployments.

Software Engineer

Jan '24 — Jan '25

Vision Forge AI Automations

Nigeria (Remote)

{Java, PL/SQL, Spring Boot, Spring Data JPA, SQL, JUnit, RabbitMQ, RESTful APIs, Microservices}

- Developed and executed an API integration strategy with Spring Boot, connecting 5 microservices to synchronize data updates and reducing QA-reported data errors by 50%.
- Refactored Java and PL/SQL codebases to enhance efficiency, cutting system response times by 15% and improving overall application performance.
- Leveraged RabbitMQ for event-driven communication, enabling real-time data flow and seamless integration across distributed system components.
- Increased code reliability by expanding JUnit test coverage to over 85%, strengthening software quality and reducing production defects.

Full-Stack Developer Intern

Schlumberger Oil and Gas Servicing Limited

Jan '23 — Aug '23
Lagos, Nigeria

{React Native, Node.js, Express.js, JWT, OAuth2.0, Cookies, PostgreSQL, GCP, Twilio}

- Developed 7 cross-platform mobile app screens with real-time interactions, improving user engagement and responsiveness across devices.
- Integrated secure authentication system with Express.js, JWT, and cookies, implementing automatic token refresh and expiration handling to fortify application security and reduce unauthorized access risks.
- Integrated Twilio API to deliver OAuth2.0-based two-factor authentication (2FA), fully aligned with OWASP Top 10 security standards, mitigating vulnerabilities such as XSS and SQL injection.
- Orchestrated cloud infrastructure on GCP, managing PostgreSQL databases, optimizing cloud storage and configurations to reduce cloud costs by 18% while enhancing data accessibility and processing speeds.

Software Developer Intern

The Intrepid Technologies Chevron

Jan '22 — Dec '22
Lekki, Nigeria

{ReactJS, JavaScript, Bootstrap, Python, Django, Docker, C, Git, Agile, RPA}

- Redesigned and optimized 6 enterprise webpages, implementing responsive layouts and compressed image assets, which boosted page load speeds by 35% and delivered a seamless user experience across devices.
- Migrated backend services to Django and refined database queries, reducing average API response times by up to 200ms and streamlining development efficiency.
- Strengthened code quality processes by leveraging Git for version control and conducting systematic code reviews, resulting in a 20% reduction in bug backlog within 3 months.
- Applied RPA analytics tools to track automation performance, producing actionable reports that guided strategy refinements and demonstrated measurable ROI from automation initiatives.

CERTIFICATIONS

React Masterclass Fundamentals, Great Learning Institute

Nov '25

Oracle Cloud Infrastructure DevOps Certificate, Oracle

Oct '25

Oracle Cloud Infrastructure Developer Certificate, Oracle

Oct '25

Certified Secure Computer User (CSCU) :Oracle Database 12c Fundamentals(Certificate of Completion),
New Horizons

Jul '25

Oracle 12c Administrator :Java SE 8 (OCA/OCP)(Certificate of Completion), New Horizons

Jul '24

Configuring Client OS:CompTIAA+ (Core 1 & Core 2)(Certificate of Completion), New Horizons

Jul '24

UiPath Robot Process Automation Certification, UiPath Technologies

Jun '23

Udemy Java Masterclass Certificate, Udemy

Jan '23

AWARDS

3RD PLACE WEMA BANK HACKATHON

Dec '25

Wema Bank

Won third place for developing NeuraFeed, an AI-driven fintech solution delivering personalized financial insights. Contributed to system design, backend implementation, and final product presentation in a competitive, time-bound hackathon.

PROJECTS

IRIS (IBAAS – Interswitch Banking-as-a-Service)Core Banking Application ISO 20022 Payment Oct '25 — Mar '26
Integration Financial Messaging Modernization, Interswitch [Link](#) Lagos, Nigeria

- Led integration of ISO 20022 inbound and outbound payment flows within Interswitch Banking-as-a-Service (IBAAS).
- Engineered ISO 20022 messages including pacs.008, pacs.002, and pacs.028 for real-time transaction processing.
- Resolved namespace and interoperability issues by standardizing BusMsg envelopes using urn:iso.
- Enforced canonical XML (C14N) and digital signatures to meet financial security and compliance standards.
- Optimized outbound flows by resolving timeout and date-time formatting issues, improving IRIS engine stability.

- Diagnosed and resolved **transport-level timeouts and message rejection errors** by optimizing XML structure, payload size, and enforcing **ISO-normalized OffsetDateTime formatting**, significantly improving outbound pacs.008 success rates.
- Established **robust error handling, retries, and observability hooks** to support high-volume production traffic and deterministic failure analysis.
- Technologies:**
Java, Spring Boot, Spring AOP (AspectJ), Spring WebFlux (WebClient), JPA/Hibernate, Oracle/PostgreSQL, Jackson, Lombok, Bitbucket, Docker, Kubernetes, AWS (Amazon Cloud), HashiCorp Vault

Rivet AI [Link](#)

- Developed **responsive frontend features** using **ReactJS, CSS3, HTML5, and Bootstrap**, ensuring **cross-browser compatibility and intuitive UI** for users managing film pre-production workflows.
- Designed and integrated **RESTful APIs with Flask and MongoDB**, handling core application logic, data persistence, and retrieval for project, schedule, and script breakdown data.
Implemented **role-based access control and protected routing** via **React Router (HOC, BrowserRouter)** to ensure secure navigation across authenticated user sections.
- Integrated **OAuth 2.0 authentication**, enabling secure user login and session management consistent with industry best practices.
Collaborated in building features that support **AI-assisted scheduling, budgeting, script breakdown, and export capabilities**, significantly streamlining pre-production planning.
- Technologies:** ReactJS, CSS3, HTML5, Bootstrap, Flask, MongoDB, REST APIs, OAuth 2.0, React Router
Context: RivetAI is an **AI-driven platform for film pre-production** that uses patented technology to **accelerate scheduling, budgeting, and script analysis**, reducing manual workload and optimizing resource planning for creative teams.

Nova Bills [Link](#)

- Modern web application built using **React.js, Node.js, Express.js, and MongoDB**. The front end is powered by React for a responsive UI/UX, while the back end uses Node and Express to handle APIs and business logic. MongoDB serves as the database layer for scalable and flexible data storage. As the app requires JavaScript enabled, it likely offers a dynamic, single-page interface.
- Created an intuitive UI with SCSS and Angular Material, incorporating custom directives and virtual scrolling for large menu.

File share [Link](#)

- Engineered the frontend components using ReactJS, CSS3, integrating Google Places API.
- Deployed a RESTful API using Flask, facilitating communication with the frontend components.
- Utilized XGBoost estimation to build and select the optimal ML model for transit fair estimation.
- Architected a **non-intrusive, cross-cutting security layer** using **Spring AOP and AspectJ**, enabling transparent fraud evaluation via custom annotations without polluting core transactional business logic.

PRM (Payment Risk Management) Integration Real-Time Transaction Risk Engine & Security

Lagos

Orchestration [Link](#)

- Led the **full-stack integration of a real-time Payment Risk Management (PRM) engine** within the NIP Core Banking Interface, operating as a **pre-authorization security gate** for outbound financial transactions.
- Architected a **non-intrusive, cross-cutting security layer** using **Spring AOP and AspectJ**, enabling transparent fraud evaluation via custom annotations without polluting core transactional business logic.
- Designed and implemented a **generic risk-context extraction and normalization engine**, dynamically mapping 20+ heterogeneous transaction attributes (BVN, KYC tier, geolocation, device/session identifiers) from multiple DTOs into a unified PRM request model.
- Built a **durable audit and observability pipeline**, persisting all risk requests, responses, and decision outcomes to support **regulatory compliance, forensic investigation, and operational analytics**.
Engineered **fail-safe and degradation strategies**, ensuring uninterrupted payment processing during PRM service latency, partial outages, or timeout conditions while preserving security guarantees.
- Technologies:**
Java, Spring Boot, Spring AOP (AspectJ), Spring WebFlux (WebClient), JPA/Hibernate, Oracle/PostgreSQL, Jackson, Lombok, Bitbucket, Docker, Kubernetes, AWS (Amazon Cloud), HashiCorp Vault

VOLUNTEERING

Digital Onboarders Member, MindTheGap

Jan '24

Student Lead, Enactus

Aug '23

PROFESSIONAL BODIES AFFILIATIONS

IEEE Graduate Member

- Institute of Electrical and Electronics Engineers(IEEE) Graduate Member