

TOCHUKWU NWANKWU

Software Engineer

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 6+ years of experience architecting high-performance, scalable microservices for fintech and gaming industries. Specialized in building regulatory compliance systems processing millions of transactions across 10+ countries, delivering 99.9% platform reliability through advanced DevOps practices. Expert in Java and Spring Framework ecosystem with proven track record of optimizing system performance, reducing downtime, and leading cross-functional teams to deliver mission-critical applications serving millions of users.

TECHNICAL SKILLS

Programming Languages: Java, Typescript, JavaScript

Frameworks & Technologies: Spring Framework, Spring Boot, JPA, Hibernate, gRPC

Databases: PostgreSQL, MySQL, TiDB, Redis

Messaging & Streaming: Apache Kafka, RabbitMQ

DevOps & Cloud: Kubernetes, Docker, Terraform, Lens, Telepresence, Jenkins, GitHub Actions, GitLab CI, Azure

Methodologies: Microservices Architecture, RESTful API Development, CI/CD, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Engineer

Pawatech | Tallinn, Estonia | March 2022 – Present

- Architect and maintain regulatory compliance systems delivering millions of user betting activities and financial transactions to government regulators across 10+ countries, ensuring timely reporting and 100% compliance with regional gaming regulations
- Implement real-time data streaming solutions using Apache Kafka to process and transmit betting data to regulatory bodies, maintaining data accuracy, integrity, and sub-second latency under peak loads
- Design and implement sophisticated queue-based systems using RabbitMQ and asynchronous job processing architectures to handle high-volume user requests, processing 50,000+ betting transactions per minute during major sporting events
- Develop and optimize gaming platform features including sports betting, virtual events, and live games using Java, Spring Framework, and Spring Boot, delivering seamless user experiences across multiple markets
- Monitor and scale Kubernetes clusters using Lens and Telepresence, implementing auto-scaling policies that ensure 99.9% platform reliability and optimal resource utilization during traffic spikes
- Optimize microservices architecture and API performance through caching strategies and database indexing, handling peak traffic loads of 500,000+ concurrent users during major sporting events with zero downtime
- Collaborate with cross-functional sports development teams, product managers, and stakeholders to enhance user experience, introduce new gaming features, and drive platform innovation

- Maintain 98% uptime for critical gaming services through proactive monitoring, automated alerting systems using Prometheus and Grafana, and rapid incident response protocols

Software Engineer

Phastmoney | Lagos, Nigeria | May 2021 – March 2022

- Designed and built scalable financial APIs using Spring Boot serving 10,000+ transactions daily.
- Integrated Okra API for direct debit functionality, enabling seamless payment processing with 99.5% success rate
- Developed payment gateway integrations with Paystack and Jumia, implementing multi-channel transaction processing with automatic retry logic and reconciliation
- Created comprehensive API documentation using Swagger and Confluence, reducing developer onboarding time by 50%
- Deployed and scaled microservices using Kubernetes clusters in production, managing containerized applications with automated health checks and rollback capabilities
- Established CI/CD pipelines using Jenkins and GitLab CI for automated deployment across staging, production, and test environments, reducing deployment time from 2 hours to 15 minutes

Software Engineer

Genesys Tenece | Enugu, Nigeria | June 2020 – April 2021

- Led development team of 3 engineers in designing inventory management application tracking sales and profit metrics for retail chain with 15+ locations
- Built store management application using Spring Boot and PostgreSQL to streamline retail operations and inventory control, reducing stock discrepancies by 40%
- Developed recruitment portal facilitating job applications and interview scheduling processes, processing 500+ applications monthly
- Mentored 2 junior developers on best practices, code quality standards, and Spring Framework fundamentals
- Delivered projects on schedule while maintaining high code quality through implementation of code review processes and comprehensive unit testing

Software Engineer

HydrogenHR | Lagos, Nigeria | January 2020 – May 2020

- Built well-documented and scalable RESTful APIs for HR management platform serving 500+ enterprise clients using Spring Boot and PostgreSQL
- Conducted code reviews for team of 5+ developers to ensure code quality, maintainability, and adherence to best practices
- Resolved 50+ critical bugs and performance issues in existing systems within first 3 months through systematic debugging and root cause analysis
- Improved API response times by 40% through optimizing database queries, implementing proper indexing strategies, and deploying Redis caching layer
- Reduced system downtime by 30% through proactive bug fixes, performance optimizations, and implementation of comprehensive monitoring

Software Engineer

FCMB (First City Monument Bank) | Lagos, Nigeria | February 2020 – June 2020

- Created comprehensive API documentation for 20+ endpoints using Swagger, facilitating integration for internal and external developers
- Ensured security and compliance standards in banking API implementations through implementation of OAuth 2.0 and JWT authentication, achieving 100% audit compliance
- Reduced API latency by 35% through performance optimization techniques including connection pooling, efficient database indexing, and query optimization
- Implemented robust authentication and authorization mechanisms protecting sensitive customer financial data, with zero security breaches during tenure

EDUCATION

Bachelor of Science in Computer Science

Nnamdi Azikiwe University, Awka, Nigeria | 2015 – 2019

CERTIFICATIONS

Microsoft Azure Fundamentals

KEY PROJECTS & ACHIEVEMENTS

- **Regulatory Compliance Platform:** Architected end-to-end compliance system processing 10M+ transactions monthly across 10 countries, implementing real-time streaming with Kafka and achieving 99.99% data accuracy
- **High-Availability Gaming Infrastructure:** Designed and deployed Kubernetes-orchestrated microservices architecture supporting 100,000+ concurrent users with auto-scaling capabilities, reducing infrastructure costs by 25%
- Achieved 98% on-time project completion rate across all positions through effective project management and agile methodologies
- Successfully integrated multiple third-party payment APIs (Paystack, Jumia, Okra) serving 10,000+ daily users with 99.5% transaction success rate
- Led and mentored development teams across multiple organizations, fostering best practices in modern software development

ADDITIONAL INFORMATION

Languages: English (Fluent)

Interests: Artificial Intelligence & Machine Learning, Cloud Computing & DevOps, Distributed Systems, Gaming.