

OLUWASEGUN AFOLABI

Attleboro, Massachusetts

📞 774-529-7946

✉️ segunafolabi1009@gmail.com

🌐 [linkedin.com/in/afolabi-oluwasegun-lekan](https://www.linkedin.com/in/afolabi-oluwasegun-lekan)

🐙 github.com/lekks

Profile Summary

Software Engineer with **5 years of experience designing and building scalable backend systems and distributed applications** using **Java, Spring Boot, Node.js, and cloud-native technologies**. Experienced in developing **microservices, REST APIs, and high-availability services deployed on AWS**. Strong background in **system design, infrastructure automation using Terraform, and end-to-end service ownership**, with a focus on reliability, scalability, and performance optimization.

Technical Skills

Programming Languages: Java, JavaScript (ES6+), TypeScript, SQL, Python

Backend Systems: Spring Boot, Node.js, Express.js, REST APIs, Microservices, Distributed Systems

Frontend: React.js, Redux, HTML5, CSS3, Tailwind CSS

Databases: MySQL, PostgreSQL, MongoDB

Cloud & Infrastructure: Amazon Web Services (EC2, S3, RDS, Lambda), Terraform, Docker, Kubernetes

Tools & Practices: Git, Jenkins, Maven, Postman, CI/CD, Code Reviews, System Design, Agile Development

Education

Southern New Hampshire University

MS in Computer Science - AI

April 2026

New Hampshire, USA

National College of Ireland

Higher Diploma in Science in Computing, 1:1

Sept 2023 - Aug 2024

Dublin, Ireland

University of Lagos

Bachelor of Science in Mechanical Engineering

Sept 2015 - Oct 2021

Lagos, Nigeria

Experience

Clozar Africa

Software Developer & Team Lead

Jun 2024 - Present

- Designed and implemented **scalable backend microservices and REST APIs** supporting vendor management, order tracking, and fulfillment workflows, processing **thousands of transactions daily across multiple vendor pipelines**
- Led **system architecture design reviews** and documented service workflows using UML diagrams, improving **cross-team development efficiency by 25%** and reducing onboarding time for new engineers.
- Led **system architecture discussions and design reviews**, documenting service workflows using UML diagrams to improve collaboration across engineering teams.
- Built **internal operational dashboards using SQL analytics**, enabling real-time monitoring of **vendor performance, order volumes, and fulfillment metrics**, reducing operational issue detection time by **40%**.
- Implemented **crypto-to-fiat wallet payment infrastructure**, integrating secure transaction pipelines with third-party APIs and ensuring **high reliability for financial operations**.
- Automated **AWS infrastructure provisioning using Terraform**, reducing environment setup time from **hours to under 10 minutes** and improving deployment consistency across environments
- Improved **service observability** by implementing centralized logging and performance monitoring, enabling faster debugging and reducing **incident resolution time by 30%**.
- Led a **team of 4 engineers**, conducting code reviews, sprint planning, and mentorship, improving sprint delivery predictability and **reducing production defects by 20%**.

QuickRemit Limited

Senior Frontend Developer(Contract)

Jan 2025 - Sept 2025

London, UK

- Led development of a **secure international money transfer platform**, enabling users to perform **cross-border transactions with integrated card and bank payment systems**.
- Architected **authentication and authorization services** including **KYC onboarding, address verification, and RBAC**, improving compliance with financial security requirements.
- Implemented **secure API integrations for real-time card validation and transaction processing**, reducing transaction verification latency by **15%**.
- Designed a **modular frontend architecture using React and TanStack Query**, improving code reuse and reducing feature development time by **25%**.

- Implemented **advanced form validation and protected routing**, improving platform security and reducing user authentication errors.
- Collaborated closely with backend engineers to design **RESTful APIs for financial services**, improving API consistency and reducing integration issues.
- Implemented **advanced form validation and protected routing**, improving platform security and reducing user authentication errors.

NITHUB, University of Lagos

Feb 2021 - Sept, 2022

Backend Development Trainer

- Delivered backend engineering training to **70+ students**, covering Spring Boot, REST APIs, and database design.
- Designed hands-on projects focused on **building scalable backend services and distributed system fundamentals**.
- Mentored aspiring engineers on **software engineering best practices, system architecture, and API design**.

Awapay

Sept 2020 - Jan 2024

Back End Developer

- Developed and maintained **Spring Boot microservices** powering the VTMoney financial platform.
- Built backend services for **user authentication, wallet balance management, transaction processing, and settlement flows**.
- Optimized database queries and implemented caching strategies, reducing API response times by **20%**.
- Integrated **third-party payment gateways and financial APIs** to enable secure and reliable payment processing.
- Maintained **99.9% uptime for production services** supporting high-volume financial transactions.
- Built operational monitoring queries and dashboards analyzing **transaction volumes, failure rates, and system performance**.

Projects

Cloud Infrastructure Automation & Monitoring Platform | *Terraform, AWS, Docker, Prometheus, Grafana*

- Designed and deployed cloud infrastructure using **Infrastructure as Code with Terraform**, provisioning compute, networking, and storage resources on AWS.
- Automated deployment of a containerized web service using **Docker** on cloud compute instances.
- Implemented **monitoring and observability pipelines using Prometheus and Grafana** to track service health, CPU utilization, and application performance metrics.
- Built dashboards visualizing system metrics and alerting signals for operational monitoring.
- Improved reliability and deployment reproducibility by eliminating manual infrastructure configuration.

Farm Infrastructure Monitoring & Resource Management Platform | *Next.js, Supabase, TypeScript, PostgreSQL*

- Designed and developed a **farm lifecycle management platform** that tracks crop growth from **planting through harvest**, enabling real-time monitoring of farm operations.
- Built a **resource management system** for tracking farm inputs such as seeds, fertilizers, labor, and equipment usage across multiple growth cycles.
- Implemented **extensive crop tracking workflows**, allowing users to monitor growth stages, field activities, and harvest readiness.
- Designed scalable **database schemas using PostgreSQL through Supabase** to support structured tracking of crops, farm resources, and operational events.
- Developed responsive dashboards using **Next.js** to visualize farm performance, growth timelines, and resource allocation.
- Implemented **real-time data synchronization and API integrations using Supabase services** to ensure consistent data updates across the platform.

Leadership / Extracurricular

- * **Technical Mentor:** Provided technical guidance to teams at Clozar Africa, promoting adoption of best practices and shared frameworks.
- * **Community Advocate:** Mentored students and peers in backend development, contributing to knowledge-sharing and inclusive growth.