

# GODWIN NGUSEN JETHRO

FULL-STACK SOFTWARE ENGINEER | ABUJA, NIGERIA | +2348067906140  
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## CAREER SUMMARY

Highly skilled and innovative Backend Software Engineer with 5+ years of experience. Adept at translating system designs into robust, optimized code using Java Spring Boot and Angular frameworks to deliver efficient APIs and user-friendly interfaces. Proven track record of driving success across diverse industries, including Human Capital Management and Fintech. Passionate about creating scalable, maintainable code and staying current with industry best practices and emerging technologies. Dedicated to delivering high-performance, visually appealing web solutions that elevate brands and exceed user expectations.

## KEY SKILLS

- **Programming Languages:** Java, JavaScript/Typescript, Python, HTML, CSS
- **Databases:** MySQL, PostgreSQL, and MongoDB
- **ORM (Object-Relational Mapping):** JDBC, JPA, R2DBC
- **DevOps:** GitHub actions, Docker, Docker hub, Jenkins, Firebase Cloud Messaging, Consul, AWS (EC2, S3)
- **Frameworks:** Spring-boot, Angular (Material, NGRX, RXJS), TDD/BDD (Mockito, Junit, Cucumber)
- **Collaboration and Project Management Methodologies and Tools:** Agile (Scrum, kanban), Jira, Trello, Slack, Microsoft Teams, Google meet
- **System architectures:** Monolith, Microservice (Consul service Discovery, Spring-cloud gateway, Feign Client, Eureka Server, Circuit breakers using Resilience4j, Distributed Systems)
- **Software architecture patterns:** Event driven (Spring Cloud Stream façade, Kafka, RabbitMQ), Layered Architecture, Hexagonal Architecture.
- Increase Scalability and reduce downtime by 50% while using Blue-green deployment and AWS EC2 Auto Scaling
- **Natural Language Processing (NLP):** Experience with spaCy and OpenNLP for entity recognition and text processing
- **Machine Learning:** Proficient in developing and deploying machine learning models.

## PROFESSIONAL WORK EXPERIENCE

**Backend Software Engineer**  
PYRANEX HQ LIMITED, ABUJA, NIGERIA (REMOTE)  
Jan 2024 – Present

### Projects:

- **Human Capital Management System**
- **Talent Acquisition Platform (Sub-system)**
- **Dynamic organizational Career sites (Sub-system)**

### Achievements:

1. **Legacy project modernization**
  - **Role:** Supporting Engineer
  - **Scope & Responsibilities:** Collaborated with lead Engineer on transformation of a legacy monolithic job application into a scalable, reactive microservices architecture by directing a team to refactor the system into distinct job and recruitment services, implementing asynchronous processing and non-blocking I/O techniques to enhance performance and reduce latency, and establishing robust monitoring, logging, and diagnostic frameworks to ensure high availability and proactively address performance issues.
2. **Notification Service (Real-Time Communication & Messaging)**
  - **Role:** Lead Engineer
  - **Scope & Responsibilities:** Led the development of a comprehensive notification service leveraging Server-Sent Events (SSE) for persistent client-server communication, integrating Firebase Cloud Messaging (FCM) for offline push notifications, designing a heartbeat mechanism to manage long-lived connections, and utilizing Apache Kafka to enhance cross-service messaging scalability and resilience.
3. **CI/CD Pipeline Setup & System Restructuring**
  - **Role:** Supporting Engineer
  - **Scope & Responsibilities:** Collaborated in engineering and deploying an automated CI/CD pipeline leveraging GitHub webhooks, Jenkins, and Docker to streamline integration, testing, and deployment processes, and restructured system and organizational access controls by defining roles, groups, and permissions to enhance security and operational efficiency.
4. **KYC Integration Initiative**
  - **Role:** Supporting Engineer

- **Scope & Responsibilities:** Collaborated with cross-functional teams to provide technical insights and integration support for the Know Your Customer (KYC) implementation, ensuring adherence to regulatory requirements and seamless system integration.

## 5. Advanced Search Negotiation Functionality

- **Role:** Lead Engineer
- **Scope & Responsibilities:** Led the development of a sophisticated job board search feature utilizing Spring Boot and QueryDSL, enabling users to perform dynamic and precise job searches with complex filtering capabilities. Utilized it to construct type-safe, dynamic queries for filtering job listings based on various criteria, optimized database interactions through its fluent API to enhance query efficiency and reduce response times.

**Technologies Used:** Java, Spring-boot webflux, Spring R2DBC, JHipster, Docker, Jenkins, GitHub, MySQL, MongoDB, Minio image server, Consul service discovery server, Firebase cloud messaging service, Kafka, Prometheus metric server

## Full stack Engineer

SOHCLICK TECHNOLOGY LIMITED, JOS, PLATEAU STATE (HYBRID)

Feb 2020 – Dec 2023

### Projects:

- **Loan Management Software**

### Achievements:

#### 1. Farmer Annual Record Service (Automated Agricultural Data Management)

- **Role:** Lead Engineer
- **Scope & Responsibilities:** Led the development and deployment of a scalable, non-blocking service to manage and process annual farmer records, streamlining data collection, aggregation, and reporting while ensuring robust security and real-time performance. Engineered reactive APIs using Spring boot projector to enable real-time data ingestion and processing, Integrated OAuth2 Resource Server and JWT-based authentication to safeguard sensitive agricultural data and rigorous testing and asynchronous processing resulting in minimal latency under heavy load.

#### 2. Payment Gateway Integration Support

- **Role:** Supporting Engineer
- **Scope & Responsibilities:** I collaborated with Senior Engineers to integrate the Flutter-wave payment gateway, ensuring secure, efficient, and reliable transaction processing across the platform by working closely to implement robust error handling, transaction logging, and security protocols, and documenting integration processes and technical guidelines to facilitate ongoing maintenance and future enhancements.

#### 3. Database Write Optimization & Schema Design

- **Role:** Supporting Engineer
- **Scope & Responsibility:** I contributed to optimizing high-volume write operations by redesigning the database schema and integrating a RabbitMQ-based queuing system, effectively decoupling client requests from processing and returning a 202 Accepted status while write operations were processed asynchronously. In this capacity, I participated in redesigning the database schema to efficiently handle write-heavy loads, enhancing throughput and reducing latency

#### 4. Development of non-blocking APIs

- **Role:** Lead Engineer
- **Scope & Responsibilities:** Led the development of non-blocking APIs using Spring Boot Project Reactor, enhancing system responsiveness and scalability by designing and implementing asynchronous data processing, integrating with various data sources for efficient retrieval, conducting performance testing to identify and resolve bottlenecks, and collaborating with cross-functional teams to ensure seamless integration into the existing system architecture.

#### 5. Front-End Development with Angular, NGRX, and Angular Material

- **Role:** Lead Engineer
- **Scope & Responsibilities:** Led the front-end development of a dynamic web application using Angular, NGRX, and Angular Material, architecting and developing a responsive and intuitive user interface, implementing state management with NGRX for efficient handling of complex application states, utilizing Angular Material to design and integrate modern, accessible, and consistent UI components adhering to Material Design principles, conducting thorough testing to ensure performance.

**Technologies Used:** Java, TypeScript, Spring Boot, Angular, MySQL, PostgreSQL, JPA, JDBC, JUnit 5, Mockito, GitHub, Docker

## IT Support Staff

MODERN BUSINESS SERVICES AND SOLUTIONS, ABUJA (HYBRID)

Nov 2018 – Dec 2019

- Designed, implemented, and maintained e-commerce and e-learning platforms.

- Delivered comprehensive, hands-on courses in Java, HTML, CSS, and JavaScript, equipping students with practical programming and web development skills.
- Delivered computer literacy programs, improving organization IT efficiency by 30%.

#### **Intern**

**GALAXY BACKBONE, ABUJA**

**April 2017 – Nov 2017**

- Developed IP generation software for Huawei IP Phones
- Configured and installed organization routers and switches
- Set up a centralized database to manage IP addresses across teams.

### **EDUCATION**

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**Bachelor of Science** – Software Engineering

Eastern Mediterranean University, Turkish Republic of North Cyprus

Graduated: **2018**

### **PERSONAL ACHIEVEMENTS**

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- **Enhanced Code Efficiency:** Improved code efficiency by 70% through collaborative coding practices.
- **Optimized Project Timelines:** Reduced project delays by 40% by enhancing team communication and collaboration.
- **Real-Time Notification System Implementation:** Successfully implemented a real-time notification system leveraging Spring Boot's Project Reactor, Server-Sent Events, Firebase Cloud Messaging, and Kafka.
- **Natural Language Processing (NLP) Project:** Developed an NLP model to extract names and skills from resumes using OpenNLP with Java Spring Boot, and work experience extraction using Python's spaCy on the Flask framework. [GitHub Repository](#)
- **Hotel Management System Development:** Designed and implemented a comprehensive hotel management system, streamlining operations and enhancing user experience. UI [GitHub Repository](#) API [GitHub Repository](#)
- **JWT Authentication with Asymmetric Keys:** Implemented internal JWT authentication using asymmetric keys generated with OpenSSH, via the OAuth2 Resource Server API in Spring Boot, enhancing secure communication. [GitHub Repository](#)

### **REFEREE**

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Available on request