

USMAN BALA USMAN

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Education

Bayero University Kano

March 2019 – July 2024

B.Sc. Software Engineering - CGPA: 4.52/5.00 (First Class Honours)

Kano, Nigeria

- Relevant Coursework: Computer Architecture, Operating Systems, Computer Programming, Data Structures and Algorithms, and Discrete Mathematics.

West African Senior School Certificate Examination

July 2018

Sciences

Kano, Nigeria

Work Experience

IPI Solutions Nig. Ltd.

July 2022 – Jan 2025

Software Engineer

Abuja, Nigeria

- Designed and implemented a microservices-based back-end for a corporate communications platform using Spring Boot, Spring Cloud, Apache Kafka, and Docker, enhancing scalability and deployment efficiency, achieving a 99% up time.
- Built a custom data migration pipeline to digitize paper-based records to the cloud, utilizing optical character recognition and LLMs to automatically name files and make them searchable, achieving a 1000% increase in migration speed and 70% percent reduction in migration costs compared to the previously used methods.
- Led quality assurance efforts during development cycles, performing proactive testing and validation to ensure bug-free, client-ready releases.
- Created technical documentation to streamline communication across development, QA, and business teams, improving alignment and delivery efficiency.

Skills

Programming Languages: Python, Go, Java, JavaScript, SQL, HTML, CSS

Frameworks and Tools: Flask, Django, Spring Boot, VueJS, ReactJS, MySQL, MongoDB, PostgreSQL, Git, Docker, AWS

Soft Skills: Problem-Solving, Critical Thinking, Communication, Teamwork, Independence

Projects

PythonOnline (Undergraduate Project)

[GitHub](#) / [Live](#)

- Developed an interactive online platform for learning Python, using Go (Golang) and JavaScript.
- Integrated the skulpt in-browser interpreter to enable real-time Python code execution within the browser environment.

Rebateboard

[Live](#)

- Implemented multi-channel communication features, including SMTP email, SMS integrations, by leveraging Redis queues enabling automated and scalable user engagement across platforms.
- Developed a fine-grained Role-Based Access Control (RBAC) system to enforce precise permission boundaries and ensure secure, policy-driven user access throughout the platform.
- Managed cloud deployment of the applications on AWS, leveraging EC2 and Docker to ensure scalable, consistent, and efficient runtime environments for production workloads.

Fullstack Open

GitHub - Express JS API

- Express JS API application with JWT authentication and mongodb backend. integration tests included.
GitHub - ReactJs UI
- React JS User Interface with custom hooks, routes etc.

Courses and MOOCs

DevOps With Docker and Docker Compose

May 2025

University of Helsinki

Fullstack Open 2022

Jul 2022

University of Helsinki

CS50 Introdcution to Artificial Intelligence with python

Dec 2021

Harvard Edx

CS50 Introduction to web programming with python and javascript

Jan 2020

Harvard Edx