Joshua Olugotun

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Summary

Backend Engineer with expertise in Python, FastAPI, and Flask, with full-stack knowledge in React.js and Node.js. Skilled in building scalable APIs, microservices, and AI-driven applications. Experienced in ML/DL with a published research paper on Federated Learning using Flower for Smart Cities data aggregation. Passionate about delivering high-performance solutions and contributing to innovative backend systems.

Education

BTech in Computer Engineering, Marwadi University   **Sept 2022 − May 2026**

GPA: 7.89/10

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management, Software Engineering, Cloud Computing

Experience

Software Engineer, Xalgo   **Feb 2025 − Apr 2025**

- Built and integrated backend trading APIs with broker systems, improving platform inclusivity and increasing revenue by 50%.
- Collaborated with mobile team to deliver responsive features and secure authentication systems.

Software Engineering Intern, Hackveda   **Jun 2024 − Oct 2024**

- Reduced rendering time for user buddy lists by 75% with prediction algorithms.
- Integrated iChat with Spotlight Search by extracting and indexing metadata.
- Redesigned chat file format ensuring backward compatibility.

Software Engineer Intern, ALX   **Aug 2022 − Jul 2023**

- Gained hands-on experience with Git, version control, and low-level development tools (Emacs, Vim).
- Developed a service to provide gradients across VS add-ins, optimizing performance via caching.
- Built a similarity detection tool for codebases, improving efficiency from $O(n^2)$ to $O(n \log n)$.

Projects

AI Interview Preparation App

- Built an AI-powered app to help students prepare for technical interviews, leveraging NLP and ML models to generate personalized practice questions and feedback.
- Stack: Python, FastAPI, Flask, React.js, ML/DL

Aconnect – github.com/BigJoe17/Acoonect

- API for a student networking platform connecting peers via AI-powered recommendations.
- Stack: FastAPI, Node.js, Express, MongoDB.

Video Conferencing Platform – github.com/BigJoe17/ZoomClone

- Developed a real-time conferencing solution integrating Streamlit and Clerk.
- Stack: Next.js, TypeScript, Streamlit.

Social Media Microservices – github.com/BigJoe17/ladyLodge

- Designed microservice architecture with services for posts and identity management.
- Used API Gateway + Docker for scalability and deployment efficiency.

Research

Published research paper on Federated Learning (FL) using Flower framework for smart cities data aggregation.

Skills

Languages:	Python, JavaScript, TypeScript, SQL, Java, C
Frameworks:	FastAPI, Flask, Node.js, Nestjs, React.js, Next.js
Databases:	MongoDB, SQL
Other:	Machine Learning, Deep Learning, Docker, AWS, Git, Cloud Computing