

# **Joshua Olugotun**

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[github.com/BigJoe17](https://github.com/BigJoe17)

## **Summary**

Software Engineer with expertise in Python, FastAPI, and Flask, with full-stack knowledge in React.js and Node.js, and diving into Golang. 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](https://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](https://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](https://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