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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/Aconnect

- 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