SAUMITRA SARAN

Backend Developer (Python | DBMS | AI/ML Systems | Automation)

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Professional Summary

BITS Pilani CS student (9.4 CGPA) with production backend experience. Built AI chatbot serving 30+ students (90% satisfaction, 500+ daily queries, 99.5% uptime). Proficient in Python, Flask, cloud deployment, and database optimization achieving 40% performance gains.

Education

Birla Institute of Technology and Sciences, Pilani
09/2025 - 09/2028

B.Sc. Computer Science | Current CGPA: **9.4** / 10

- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Web Development with React, Node.js, Angular, Backend Development using Python and Flask, Object-Oriented Programming with C and C++

Technical Skills

Languages: Python, Java, C++, C, R, SQL, HTML, CSS, JavaScript, Bash

Backend and APIs: Flask, REST APIs, Meta API, Twilio, ChatGPT API

Databases: MySQL, PostgreSQL, SQLite, MongoDB

Cloud and DevOps: IBM Cloud, GCP, AWS, Azure, Cloudflare, Docker

Tools/Libraries: Git/GitHub, React, VSCode, NumPy, Pandas, PyTorch, Matplotlib

Work Experience

MindvsYou AI
Lucknow, India

Backend Developer | Live Chatbot Link: https://wa.me/917905574323
09/2025 - Present

- Engineered AI-powered education chatbot serving 30+ students, achieving 90% user satisfaction through intelligent topic revision and question generation.
- Architected and tested scalable Flask-based backend integrating ChatGPT API, Twilio messaging, and ReportLab PDF generation, handling 500+ daily queries.
- Designed and optimized SQLite database schema, reducing query response time by 40% and ensuring 99.5% uptime via Cloudflare tunnel deployment.

Alumnate: TechHub
Lucknow, India

Technology and Programming Instructor
06/2025 - 07/2025

- Trained 15 students in AI/ML fundamentals through hands-on Mood-Detector AI project, resulting in 85% improvement in Python proficiency.
- Designed and delivered 25+ hours of curriculum covering computer hardware architecture and fundamentals, through hands-on PC reverse-engineering workshops.

DataAnnotation
Remote

Freelance Developer
06/2025 - 09/2025

- Delivered 3 paid programming projects, with 100% on-time completion rate, converting no-code solutions into production-grade Java and Python applications.
- Optimized application performance by 15% through prioritized code refactoring, reducing execution time and improving scalability for 500+ end users.

Projects

WIFEY - The Voice Assistant

GitHub: https://github.com/Saumisom/wifey-voice-assistant | Tech Stack: Python, MySQL, Linux
04/2023 - 11/2024

- Developed bilingual (English/Hindi) voice assistant on Raspberry Pi targeting rural education, with 200+ hours of testing in low-resource environments.
- Integrated multiple APIs (weather, horoscope, educational content) with custom caching system reducing API calls by 60%.
- Implemented natural language processing for homework assistance, games, and daily utilities, achieving 85% voice recognition accuracy in noisy conditions.

Cryptocurrency Management System

GitHub: https://github.com/Saumisom/CCMS | Tech Stack: Python, Java, SHA-256, Azure
06/2023 - 01/2024

- Built secure console-based cryptocurrency platform with user authentication, P2P transfers, and transaction logging serving 50+ test users.
- Implemented SHA-256 cryptographic hashing for transaction integrity and user ID generation, ensuring zero security breaches during testing phase.

Leadership Experience

Alumnate
Lucknow, India

Founder and President
02/2025 - Present

- Founded and scaled alumni networking organization from 0 to 150+ active members across 2 partner schools and 1 sports organization in 4 months.
- Orchestrated 3 flagship events increasing student-alumni engagement by 35%, facilitating 60+ mentorship connections across professional domains.
- Built mentorship network connecting 60 students with 50+ alumni professionals, resulting in 10+ internship placements and 12 college admission guidances.

Certifications

IBM AI Developer Professional Certificate — Coursera	06/2025
Meta Full-Stack Developer Professional Certificate — Coursera	08/2025