

# Saurabh Vishwakarma

✉ contact@saurabhvishwakarma.in    ☎ +91 7000729488    💻 leetcode    📁 Portfolio    in linkedin    🐙 Github

## Summary

Curious and driven Computer Science graduate with a strong foundation in backend development, real-time systems, and AI integration. Experienced with Python, FastAPI, PostgreSQL, AWS, and LangChain. Interested in building impactful and scalable products and continuously growing as a developer.

## Experience


### Prompt Engineer - Freelance Outlier AI

Remote  
Dec 2024 - Present

- Enhanced model performance by 30% through sophisticated prompting strategies and optimized training datasets for code generation across React, NextJS, Python, and Go
- Developed automated data pipeline processing 100,000+ code samples while maintaining 95% quality standards
- Reduced language-specific errors by 40% through implementation of cross-language optimization techniques

### Software Engineer Intern

#### Hunkaar Labs

- Kikker** - AI-powered job application browser extension    [view](#) 
  - Designed and deployed scalable back-end microservices supporting 2,000+ daily active users.
  - Integrated payment infrastructure, successfully handling 100+ live transactions through Razorpay.
  - Used LangChain and wrote unit/integration test cases for APIs to validate system functionality.
  - Connected Grafana Dashboard with Loki for centralized logging and real-time monitoring of events.
- Kosmic** - Real-time astrology consultation platform
  - Led back-end and web development during the early stages of a real-time astrology consultation platform.
  - Built real-time chat functionality using WebSockets and a system for scrollable livestreams.
  - Integrated LiveKit SDK for 1:1 consultation capability, laying the foundation for scalable infrastructure.
- Tech Stack:** Python, FastAPI, PostgreSQL, AWS (EC2, RDS, S3), Docker, React, OpenTelemetry, Langchain.

## Projects

### PinSphere: A Dynamic Platform for Multimedia Sharing

- Developed a full-stack media sharing platform using React and FastAPI.
- Integrated contextual image search using Llama 3.2 and Sentence Transformers for intelligent search.
- Optimized image/video compression techniques, reducing storage usage by up to 40%.
- Tech Stack:** FastAPI, React, PostgreSQL, Minio, Celery, OAuth2.0, LLMs, Sbert

### AI-Powered Interview Simulator: Simulates, scores, and analyzes interviews.

- Built an interview simulator using Llama 3.2 for candidate assessment and practice.
- Integrated Google Whisper to enable automated real-time interview conversations and evaluations.
- Creates a performance analytics report that provides improvement recommendations, scoring metrics, and full interview transcripts.
- Tech Stack:** Python, Google Whisper, LangChain, Llama 3.2, React

## Skills

**Languages & Frameworks:** Python, JavaScript, FastAPI, Django, React.js, Langchain, Go (Gin)

**Cloud & Infrastructure:** AWS (S3, RDS, EC2, DynamoDB), Docker, CI/CD, Nginx, Firebase

**AI & Backend:** Langchain integration, Sbert, REST APIs, PostgreSQL, Redis, RabbitMQ.

**Architecture & Design:** Microservices, MVC, Clean Architecture, Domain-Driven Design, Monolithic

**Soft Skills:** Communication, Team work and Active Listening.

## Achievements

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- Technical Problem Solving: Solved 400+ DSA questions on LeetCode, GFG, and Coding Ninja.
- Global rank below **1000** among millions of users on Decoder.

## Education

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### NIIST Bhopal

*BTech in Computer Science and Engineering ( 7.01 CGPA )*

- **Coursework:** Data Structures and Algorithms, Databases, Operating Systems, and Computer Networks.