

Saurabh Vishwakarma

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Education

Bachelor of Technology in Computer Science Engineering
NIIST Bhopal (7.01 CGPA)

July 2021 – May 2025

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

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, RESTAPIs, PostgreSQL, Redis, RabbitMQ.

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

Soft Skills: Communication, Team work and Active Listening.

Experience


AI Engineer - Freelance
Outlier AI

Remote
Dec 2024 - Present

- Enhanced model performance by 30% through **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
- Tech Stack: Python Scripting, Prompt Engineering, Go, React


Software Engineer Intern
Hunkaar Labs

Bhopal, India
Jan 2024 - Dec 2024

- **Kikker** - AI-powered job application browser extension [view](#) 
 - Designed and deployed scalable back-end microservices supporting 2,000+ daily active users.
 - Integrated **RazorPay** payments infra and an **AI response system** to generate custom resumes.
 - wrote **unit/integration test** cases with 100% coverage for APIs to validate system functionality.
 - Connected Grafana Dashboard with Loki for centralized logging and real-time monitoring of events.
- **SuperAstro** - 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 live streams**.
 - Integrated **LiveKit SDK** for 1:1 consultation capability, laying the foundation for scalable infrastructure.
- **Tech Stack:** Python, FastAPI, RazorPay, PostgreSQL, AWS (EC2, RDS, S3), Docker, React, OpenTelemetry, Langchain.

Projects

PinSphere: A dynamic full-stack media sharing platform.

[repo link](#) 

- Developed a full-stack media sharing platform using React and FastAPI.
- Implemented a **modular monolithic architecture** to enhance code quality, maintainability, and scalability.
- Integrated **contextual image search** using Llama 3.2 and Sentence Transformers for intelligent search.
- Implemented asynchronous BlurHash generation using **Celery workers** to improve processing efficiency.
- Optimized **image/video compression** techniques, reducing storage usage by up to 40%.
- **Tech Stack:** FastAPI, React, PostgreSQL, Minio, Celery, OAuth2.0, LLMs, Sbert

Achievements

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