

# Saurabh Vishwakarma

Software Engineer

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## Professional Summary

I'm a Software Engineer building scalable systems and improving performance for production applications. Focused on clean architecture, reliability, and maintainable code. Works across backend, data, and infrastructure with strong ownership and execution.

## Technical Skills

- **Frameworks:** FastAPI, SQLAlchemy, Django, React
- **Languages:** Python, GoLang, JavaScript
- **Database:** PostgreSQL, Supabase, Redis, MongoDB
- **Cloud & Deployments:** AWS, Docker, Kubernetes, Linux, Terraform, Vercel

## Work Experience

### Software Engineer

Synthlane

October 2025 - Present

Gurugram, Haryana

- Built a **FastAPI backend service** with **RBAC** to manage user operations and decouple internal orchestration workflows.
- Designed authentication and authorization using **Okta** and **Supabase Auth** with **RBAC** and **RLS** for fine grained access control.
- Integrated **Langfuse** for end-to-end tracing and observability across LLM and backend workflows.
- Migrated data from **PostgreSQL** to **Supabase** using **Fivetran** and **dbt**, ensuring reliable data pipelines and transformations.
- Automated deployments on **AWS ECS** using **Terraform** and **GitHub Actions**, improving release consistency and reliability.
- Rebuilt internal tools on **Kubernetes** and integrated **Grafana Alloy** to strengthen system reliability and observability.
- Reduced FastAPI **p95/p99 latency** from **450 ms** to **<100 ms** at **80 RPS** through application and infrastructure level optimizations.

### Software Engineer - Freelance

Outlier AI

January 2025 - October 2025

Remote

- Developed a **Streamlit app** to compare AI model responses, incorporating performance metrics for 20+ models.
- Enhanced LLM code generation through prompt design, curated datasets, and systematic evaluation, improving accuracy by 15%.
- Performed systematic A/B testing of prompt variations to improve model accuracy by 15% across coding tasks.

### Software Engineer Intern

Hunkaar Labs

January 2024 – January 2025

Bhopal, India

- Developed and deployed **FastAPI + Celery** microservices with an admin dashboard, serving **5,000+** users.
- Integrated Razorpay payments (**700+** transactions, **99%** success) and added LangChain-based **workflow automation**.
- Designed chat using **WebSockets**, **posts** and **stories** with REST APIs, and live streaming via **LiveKit**, achieving **99%** uptime.

## Projects

### PinSphere: Full-Stack Media Sharing Platform

GitHub Repository

- Planned scalable architecture and **intelligent search** with Llama 3.2 & Sbert, including **vector embeddings**.
- Optimized storage with **40% compression** and enhanced image/video pipeline via Celery-based BlurHash processing.
- **Tech Stack:** FastAPI, React, PostgreSQL, MinIO, Celery, Large Language Models (LLMs), SBERT, AWS (S3, EC2)

### RedisGo: Redis implementation in GoLang

GitHub Repository

- Implements a TCP-based Redis-like server in Go (v2.1) using the **tidwall/resp** library, goroutines, channels, maps, and sync.RWMutex for concurrent key-value storage.
- Parses **RESP arrays** into typed commands (SET, GET, HELLO, client) and handles network I/O, connection lifecycle, and in-memory KV operations with minimal error handling.
- **Tech Stack:** Go, RESP Protocol, Goroutines, net

## Education

### Bachelor of Technology in Computer Science Engineering

NRI Institute of Information Science and Technology - Bhopal

July 2021–May 2025

- **Relevant Coursework:** Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, OOPs.

## Achievements

- Solved **300+** Data Structures and Algorithms problems on LeetCode, GeeksforGeeks, and Decoder.
- Contributed to open-source projects with bug fixes and feature enhancements for **3+** GitHub repositories.
- **Coding Profiles:** Codolio , GeeksforGeeks , LeetCode , CodeChef , Dcoder