

Gyan Thakur

Backend Developer

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Portfolio: gyan007.github.io/Gyan-s-Portfolio/

Professional Summary

Backend-focused developer with hands-on experience building scalable REST APIs and event-driven microservices using FastAPI and Node.js. Proven track record improving API latency and throughput (measured production improvements), implementing caching and async pipelines, and delivering CI/CD-driven deployments. Strong fundamentals in SQL, system design, and production diagnostics — ready to own backend components end-to-end.

Selected Achievements

- Reduced median API latency by **25%** and increased throughput by **35%** through Redis caching and SQL optimization.
- Built idempotent event-driven microservices achieving **99.9%** reliable event processing in production-like environments.
- Automated CI/CD with GitHub Actions and PyTest, cutting deployment iteration time by **40%**.

Technical Skills

Core: Python, C++, JAVA, JavaScript FastAPI, REST APIs, Microservices, Async Workers, SQL Optimization

Backend / Tools: Node.js, Express, WebSockets, JWT/OAuth2, ChromaDB, Redis, PostgreSQL, MySQL

DevOps / Cloud: Docker, GitHub Actions (CI/CD), Render, Basic AWS (EC2/Lambda/S3)

Data / ML: TensorFlow, Pandas, NumPy, Model serving (FastAPI), Embeddings, LangChain

Other: System Design, Caching, Logging/Monitoring, Unit & Integration Testing, Git

Experience

Software Development Engineer (SDE) Intern

Jun 2025 – Nov 2025

Cere Labs Private Limited, Mumbai

- Engineered AI-driven backend services (FastAPI, async workers, PostgreSQL, ChromaDB), reducing median API latency by **25%**.
- Designed event-driven microservices (FastAPI + MySQL) with idempotent retry and dead-letter handling, achieving **99.9%** reliable processing.
- Implemented Redis caching strategies and query indexing to boost throughput by **35%**.
- Introduced structured logging, centralized error handling, and observability improvements that reduced debugging time by **30%**.
- Built CI/CD pipelines (GitHub Actions) and test automation (PyTest) to enable safe, repeatable deployments.

Projects

AI-Powered Tutor Platform

Jan 2025 – May 2025

Tech: FastAPI, LangChain, Streamlit, PostgreSQL, JWT, Docker

- Developed backend for chat, session management, RBAC, and semantic search (embeddings). Implemented async inference pipelines to deliver **30–45% faster responses**.
- Secured APIs with JWT/OAuth2, containerized services, and automated deployment via CI/CD.

Telecom Customer Churn Prediction (Inference API)

Nov 2025

Tech: Python, TensorFlow, FastAPI

- Built end-to-end pipeline and served a trained ANN model (92% accuracy) through a FastAPI inference endpoint for near-real-time scoring.

Education

B.Tech in Computer Engineering

2022 – Present

Bharati Vidyapeeth University College of Engineering, Pune

CGPA: 9.16 / 10

Certifications

Oracle Cloud Foundation Associate	2025
Oracle Data Science Professional	2025
Software Engineering (NPTEL)	2023
Database Management System (NPTEL)	2024