

GOPAL KRISHNA JS

Bengaluru, Karnataka

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SUMMARY

MCA student at RV College of Engineering with experience developing scalable distributed systems, real-time analytics platforms, and AI-powered applications. Skilled in Python, Java, FastAPI, PostgreSQL, Redis, Docker, and cloud technologies, with interests in financial technology, cybersecurity, and high-performance backend systems.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R

Tools: Git, Docker, Linux, AWS, GNS3, Figma, Adobe Suite

Libraries: Pandas, NumPy, Matplotlib

PROJECTS

Global Flight Heatmap Analytics Platform

2026 – Present

React, TypeScript, FastAPI, PostgreSQL/PostGIS, Redis, Docker, WebSockets

GitHub

- Developed a real-time flight tracking platform visualizing live aircraft movements on an interactive world map using Leaflet and WebSockets.
- Built scalable backend services with FastAPI, PostgreSQL/PostGIS, and Redis for flight ingestion, caching, analytics, and geospatial querying.
- Implemented live aircraft tracking, trajectory visualization, fleet monitoring, regional traffic analytics, and airport intelligence dashboards.
- Optimized performance using Redis caching, WebSocket streaming, database indexing, and clustering techniques for large-scale flight datasets.

Open Audit (AI Financial Auditing Platform)

2026

React, Node.js, PostgreSQL, Gemini API

GitHub

- Developed an AI-powered auditing platform to extract, validate, and analyze financial records from invoices and receipts.
- Designed rule-based tax computation and anomaly detection pipelines to automate audit workflows.
- Built RESTful APIs for audit reporting, fraud detection, and financial insights generation using PostgreSQL and Gemini API.

SD-WAN Hospital Network Simulator

2026

Python, Flask, React + Vite

GitHub

- Built a real-time SD-WAN simulation platform to model and analyze hospital network traffic patterns.
- Developed an interactive network topology visualizer with live traffic monitoring and route simulation.
- Simulated DDoS attack scenarios to evaluate network resilience, traffic flow, and performance under abnormal load conditions.

EDUCATION

RV College Of Engineering

Masters in Computer Applications

2025 – 2027(Expected)

Current SGPA: 8.63/10

Sri Bhuvanendra College

Bachelors in Computer Application

2022 – 2025

CGPA: 9.0/10