

RISHAV RAJ

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OBJECTIVE

Highly motivated and results-oriented Software Engineer seeking to leverage strong backend development skills and a passion for robust code design to contribute to scalable solutions and collaborative team environments.

EDUCATION

Bachelor of Computer Science, VIT Bhopal University

Expected 2026

Relevant Coursework: CSE, Cloud, and Automation.

8.34 CGPA

SKILLS

| | |
|---------------------------|---|
| Backend & APIs | Python, Fast API, JSON, RESTful API |
| Cloud & DevOps | AWS, Docker, Boto3, Git, GitHub Actions (CI/CD), Linux, Bash, Lambda, EC2 |
| System Design | LLD, HLD, Load balancing, Rate Limiting, Security |
| Databases | SQL, PostgreSQL, S3 |
| Soft Skills | Leadership, Collaboration, Problem solving, Documentation |

EXPERIENCE

Task Management API with Auth

April 2025 – May 2025

Architected RESTful API with Fast API, JWT Authentication

Bhopal, Madhya Pradesh

- **Designed and deployed a scalable Notes REST API** with full JWT-based authentication, search, rate-limiting, and pagination; achieved **100% CRUD coverage with 95%+ test pass rate using Pytest**.
- **Containerized and deployed on AWS EC2 using Docker**, integrated CI/CD pipelines with GitHub Actions to automate testing and deployment; ensured **<300ms response time** and **99.9% uptime in staging environment**.
- **Implemented secure access control and role-based authentication**, logging, and performance monitoring optimized SQL queries for efficiency, handling up to **10K+ requests/day** with **no data loss or token leakage**.

AI-Powered Research Assistant (LangChain & Google Gemini)

May 2025 – June 2025

Leveraged Streamlit, Fast API, and PostgreSQL to power App

Bhopal, Madhya Pradesh

- **Engineered an intelligent AI agent** leveraging **LangChain** and **Google Gemini 1.5 Flash** for automated, multi-source research, dynamically orchestrating tools (DuckDuckGo Search, Wikipedia) to generate comprehensive summaries, **reducing manual information gathering time by an estimated 40%**.
- **Developed a user-centric web interface** using **Streamlit** to provide real-time query input and dynamic display of research findings, significantly enhancing user accessibility and engagement while processing **over 100 simulated research queries**.

EXTRA-CURRICULAR ACTIVITIES

- Actively write [hashnode](#) and social media posts [Linkedin](#) viewed by over 1K+ job seekers per week to help people with best practices to enhance their skillset.
- Passionate reader of non-fiction and tech literature, with a focus on personal development, systems thinking, and emerging technologies.

LEADERSHIP

- Led a team of 8 members in planning and executing Cloud Zone Club events, overseeing end-to-end logistics including venue setup, scheduling, and on-site operations to ensure smooth event delivery and high participant engagement.