

Hemant Kumar Kashyap

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Professional Summary

Software Development Engineer with 2+ years of experience building scalable backend systems using **Python, FastAPI, PostgreSQL, Redis, and GraphQL**. Experienced in system design, API architecture, cloud deployment, CI/CD, and production observability.

Experience

Software Engineer, Zangoh

May 2025 – Present

Indore, MP, India

- Lead architecture and end-to-end development of three production platforms - Zangoh Studio, Onyx, and Zing - covering technical planning, system design, feature delivery, and production releases.
- Design scalable backend systems using **FastAPI, PostgreSQL, Redis, and GraphQL**, including API architecture, database schemas, caching layers, and inter-service communication.
- Build containerized cloud deployments using **Docker** and **Google Cloud Platform (GCP)**, with **GitHub Actions** for CI/CD and automated release workflows.
- Implement production observability using **Prometheus, Grafana, and Loki** to monitor system reliability and improve issue detection and troubleshooting.
- Review production pull requests and establish backend engineering standards across development, testing, and production environments.
- Mentor engineers and interns while contributing to technical planning, backend architecture, and production delivery.

Software Engineer Intern, Zangoh

July 2024 – March 2025

Indore, MP, India

- Developed backend APIs and improved application performance by **30%**.
- Assisted with cloud deployments, backend architecture, monitoring, and production system improvements.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, JAVA

Backend: FastAPI, Node.js, REST APIs, GraphQL, WebSockets, Microservices

Databases: PostgreSQL, Redis, MySQL

Cloud & DevOps: GCP, AWS, Docker, GitHub Actions, CI/CD, Prometheus, Grafana, Loki, Linux

Frontend & AI: React.js, HTML, CSS, React Native, LLMs, RAG, OpenAI APIs

Projects

TeamMind — Multi-Tenant RAG Knowledge Assistant

GitHub/teammind | FastAPI | PostgreSQL | Redis | pgvector | OpenAI API | Docker

- Built a multi-tenant, **RAG-powered knowledge assistant** enabling secure natural-language search over internal team documentation.
- Designed **JWT-based authentication**, refresh-token rotation, **RBAC**, tenant-isolated data access, and **Redis-backed per-tenant rate limiting**.
- Implemented a document ingestion and retrieval pipeline using chunking, **OpenAI embeddings**, and **pgvector similarity search**.
- Deployed a containerized service to production on Render with **Docker** and **GitHub Actions CI**.

PR/CI Feedback Dashboard — GraphQL API

GitHub/pr-ci-dashboard | GraphQL | Node.js | GitHub OAuth | Redis | Webhooks | Docker

- Built a **GraphQL API** aggregating pull request, review, and CI status across multiple GitHub repositories into a unified dashboard.
- Integrated **GitHub OAuth**, REST/GraphQL APIs, and **webhooks with polling fallback** to synchronize PR and CI state in near real time.
- Designed an efficient GraphQL schema with **DataLoader-based batching** to eliminate N+1 queries across nested PR, review, and check data.
- Deployed the service to production on Render with **Redis-cached** dashboard aggregation.

Education

Bachelor of Technology in Information Technology

Aug 2021 – Apr 2025

Sushila Devi Bansal College of Technology (SDBCT)

CGPA: 7.52