Gagan Chauhan

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Professional Summary

Software Engineer with 1+ years of experience in building scalable microservices and RESTful APIs using Spring Boot and AWS cloud-native architectures. Proven track record of improving system performance by 30%, reducing deployment cycles through CI/CD automation, and delivering low-latency streaming solutions. Expertise in backend development, API design, database management, and containerization with Docker.

Professional Experience

Software Engineer, Prismberry Technologies Pvt Ltd – Noida, UP   Oct 2024 - Present

- Developed and maintained **20+ RESTful APIs** using **Spring Boot** and **Spring MVC**, documented with **Swagger/OpenAPI**, improving developer onboarding by **40%**.
- Designed scalable **microservices-based architecture** following **Agile/Scrum** practices and implemented secure **Maker-Checker** and **multi-level approval workflows** using **Spring Security**.
- Built **low-latency video streaming solution** using **AWS Kinesis Video Streams (WebRTC)** to stream **RTSP camera feeds** and developed **bulk-processing APIs** improving **system throughput by 30%**.
- Managed databases with **MySQL** and **PostgreSQL** using **Flyway migrations** for **zero-downtime deployments** and version control.
- Established **CI/CD pipelines** with **GitHub Actions** and **Docker**, reducing **QA feedback cycles by 20%** through automated **unit testing** and **integration testing**.

Technical Skills

Programming Languages: Java, Python, SQL
Frameworks & Libraries: Spring Framework, Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, React.js
Databases: MySQL, PostgreSQL, MongoDB
Cloud & DevOps: AWS (Kinesis Video Streams, SQS), Docker, Git, GitHub, Linux
Tools & Technologies: Flyway, REST APIs, Microservices, Swagger/OpenAPI, Postman, Gemini API, LLM Integration

Projects

VisionIQ - AI Video Analytics Platform

- Built a **backend system** using **Spring Boot** that processes video from live **RTSP cameras** and recorded files to generate safety and operational insights with **AI integration**.
- Integrated AI analysis results using an **event-driven architecture** with **AWS SQS** to handle data asynchronously and at scale, ensuring high **system throughput**.
- Added **real-time dashboards** and alerts using **WebSockets** for events like fire detection, fall detection, and restricted-area activity with low-latency delivery.
- Enabled live camera viewing with low latency using **AWS Kinesis Video Streams (WebRTC)**, supporting multiple concurrent viewers on the same stream with **performance optimization**.

Looply - Social Media Platform   Code

- Built a full-stack **MERN** (MongoDB, Express, React, Node.js) social media application with a clean **Tailwind CSS** UI and fast frontend performance using **Vite**.
- Added **real-time features** such as feeds, messaging, and notifications using **Socket.io**, supporting 50+ concurrent users with low delay and high **scalability**.
- Implemented secure user **authentication and authorization** using **JWT**, **Google OAuth**, and email verification to ensure data security.
- Enabled media uploads and content moderation using **Cloudinary** and **Multer**, including basic **AI-based** caption and content filtering with **LLM integration**.

Education

Chitkara University, Bachelor of Engineering in Computer Science   2021 - 2025
CGPA: 8.67/10.0