Geetansh Agrawal

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Summary

Backend-focused Software Engineer with proven expertise in **Java, Spring Boot, Node.js and system design**. Experienced in building **high-volume, fault-tolerant microservices**, integrating **SQL/NoSQL databases, messaging systems (Kafka/RabbitMQ)**, and deploying on **AWS with CI/CD and Docker**. Adept at designing end-to-end architectures and delivering scalable, secure, full-stack solutions.

Experience

Product Engineer   Aug 2023 – Present

Tata Consultancy Services (TCS) – TCS iON Digital Assessment Platform   *Mumbai*

– Architected and developed **Java + Spring Boot REST APIs & microservices** serving **millions of assessment requests** concurrently.
– Implemented **event-driven processing** with **Kafka** and **RabbitMQ** to decouple services and improve throughput by 35%.
– Integrated **MySQL & MongoDB** with optimized queries and caching strategies on large-scale data.
– Containerized services using **Docker** and deployed on **AWS EC2** via automated **CI/CD pipelines**.
– Collaborated with architects to **redesign system modules** using **scalable design patterns**, reducing response time by 25% and improving security with **RSA/AES** encrypted logs.

Technical Skills

Backend	Java	Spring Boot	Node.js	Express.js	REST APIs	Microservices
Frontend	ReactJS	Next.js	HTML	CSS	JavaScript	
Databases	MySQL	MongoDB	Redis	PostgreSQL		
Cloud / DevOps	AWS (EC2, S3, λ)	Docker	CI/CD	Git		
Messaging / Monitoring	Kafka	RabbitMQ	Log4j	ELK (Basic)		
Other	Data Structures	Algorithms	Design Patterns	OOP	Agile	

Projects

ByteBox - Cloud File Storage App | *Next.js, Node.js, MongoDB, Telegram API, AWS* gbytebox.vercel.app

– Engineered a **serverless storage platform** integrating **Telegram Bot API** for secure file transfers and notifications to **100+ active users**.
– Designed and implemented a **tree-based folder system** with fast retrieval,access control and metadata
– Deployed backend on **AWS EC2 with CI/CD**, achieving **90% cost reduction** compared to traditional S3 storage.

Vibe - Real-Time Chat App | *ReactJS, Node.js, Socket.io, WebRTC, MongoDB*   vibe-chat-app.com

– Developed a **real-time chat and video calling platform** with **50+ concurrent users** using **Socket.io & WebRTC**.
– Implemented **end-to-end encryption** and optimized MongoDB schema for chat history retention.

Achievements

- **2nd**, GreenDeck Hackathon – Built a real-time visitor insights system using event-driven architecture.
- **Lead App Developer**, Google Developer Student Club – Conducted 5+ coding bootcamps mentoring 100+ students.

Education

University Institute of Technology RGPV   Bhopal, India

B.Tech — Computer Science & Engineering; CGPA: 8.23   *May 2019 – Jun 2023*