

Mansi Gupta

+917004913988 — in.mansi.gupta@gmail.com — linkedin.com/in/mansi-gupta — Bengaluru, India

Summary — Full Stack Software Engineer with 4+ years of experience designing and developing scalable, high-performance web applications using Java, Spring Boot, Vue.js, and React.js. Strong expertise in object-oriented design, system optimization, multi-threaded API development, SQL performance tuning, and microservice architecture. Proven ability to lead cross-functional teams, mentor junior developers, and deliver solutions in Agile and CI/CD environments.

Skills

Frontend	Vue.js, React.js, JavaScript, jQuery	DevOps	GitHub Copilot, GitHub, Docker, Maven
Backend	Java, Spring Boot, Python, Kafka, RESTful APIs	Practices	Agile (Scrum), JIRA, Confluence, CI/CD, Object-Oriented Programming, Multithreading, Concurrency, System Design, Scalability
DBMS	MySQL, SQL Query Optimization, Database Schema Design		

Experience

Mobileum

Software Engineer

April 2024 – Present

Performance & System Optimization

- Designed and implemented a SQL Database Cache Mode to store pre-processed reports in a dedicated cacheDB, improving report retrieval speed by 40% and reducing server load.
- Restructured a core SQL schema by splitting a large monolithic table into two normalized tables, using clean abstraction layers and separation of concerns, accelerating chart rendering, report generation, and alarm evaluation across the system.
- Introduced lazy loading in microservices using Spring Boot, reducing query response latency by 50% (400ms → 200ms), and improving concurrent request handling..
- Introduced dynamic caching mechanisms for trace analyzer modules, improving memory efficiency by 35% and speeding up peak-time requests by 20%.
- Implemented multi-factor authentication (MFA) and encryption protocols, enhancing security across the platform and ensuring compliance with industry standards.
- Integrated Apache Kafka for inter-service communication, enabling real-time event streaming between trace analyzers and reporting engines.
- Built high-throughput RESTful APIs using Java and Spring Boot, handling concurrent requests across distributed modules, with response times optimized to sub-200ms under peak loads.
- Leveraged Java's multithreading and concurrency utilities (Executors, CompletableFuture) to parallelize data processing pipelines, improving backend processing speed by 35
- Designed alerting systems using monitoring tools to detect anomalies in streaming pipelines and proactively handle failures.

System Reliability & Optimization

- Developed automated alerting and monitoring systems, reducing manual intervention and improving incident response time by 20%.
- Solved critical caching issue, reducing downtime from 2 minutes to 30 seconds.
- Introduced KPIs and threshold values, reducing manual interventions by 30% and improving dashboard graphs.
- Refactored legacy modules to follow SOLID principles, improving object-oriented modularity and Clean Code principles, reducing tech debt by 25% and improving maintainability.
- Migrated legacy Ant build system to Maven, reducing CI pipeline build times by 40% and improving deployment stability.

Security & Testing

- Integrated Multi-Factor Authentication (MFA) and data encryption protocols, ensuring platform-wide compliance with security standards.
- Implemented email address verification in compliance with regulatory policies, ensuring validated user identities and reducing risk of impersonation or account misuse.
- Integrated role-based access control (RBAC) and secure API gateways, safeguarding sensitive endpoints and ensuring access isolation across user roles.

Leadership & Mentorship

- Mentored 3 junior developers in agile ceremonies, code quality, and feature delivery, increasing sprint velocity by 20%.
- Led weekly code reviews, improving adherence to clean coding practices and reducing bugs by 20%.
- Facilitated cross-team coordination between backend, QA, and product, ensuring timely delivery of smartphone trace analytics.

Mobileum

Dec 2021 – April 2024

Associate Software Engineer

- Created reusable Vue.js components and optimized backend communication, improving frontend responsiveness and API concurrency handling, cutting page load times by 40% across modules.
- Improved backend interaction performance, introduced thread-safe data access layers and implemented unit tests, increasing coverage from 20% to 65%.
- Participated in code reviews and scrum meetings, helping boost team delivery rate by 12%.
- Actively resolved production issues, reducing support ticket volume by 20% through proactive debugging and log monitoring.

Education

Banasthali University

2017 – 2021

Bachelor of Technology

Major: Computer Science ; Information Technology

Projects

Spot Billing Mobile Application for BWSSB (SAJALA)

- **Tech stack** : Flutter, Dart, JSON, Web API
- Streamlined water billing by integrating real-time meter reading, reducing manual errors by 40% and improving billing accuracy by 30%.
- Enabled on-the-spot bill generation alongwith concurrent meter data handling, cutting the billing process time by 50%.

Continuous Assessment Marks Management System

- **Tech stack** : React.Js, HTML, Bootstrap, Web API
- Automated the marks submission process, reducing teacher administrative workload by 80%.
- Enhanced the accuracy of recorded scores by 20%, reducing errors in manual record-keeping.