Gaurang Pansare

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Backend Software Engineer with 9 years of experience building scalable web applications and microservices using Java, Node.js, OracleDB, MongoDB, AI, and cloud. Led development for platforms serving 1M+ users; passion for rapid prototyping and clean code.

Skills

Languages: Java, JavaScript, SQL
Frameworks: Spring Boot, Node.js, Express.js, Microservices, REST APIs, JPA/JPQL
Databases & Tools: OracleDB, MongoDB, Redis, Kafka, PostgreSQL, Git, AWS, Temporal, Technical documentation

Experience

Manager
October 2025 – Present
Ernst & Young
Mumbai, India

Technologies: Java, Spring Boot, Microservices, REST APIs, OracleDB, Kafka, Redis

- Led the architectural redesign and engineering execution for a client's travel portal migration, replacing legacy C++, SQL Server, and SharePoint components with distributed Java microservices, REST APIs, and an Angular-based front-end.
- Translated complex business requirements into scalable technical specifications and implementation roadmaps.
- Facilitated client discovery sessions to define scope and designed the underlying logic for new feature deployments.
- Designed optimized database schemas and data models to support complex business logic and ensure long-term data integrity.
- Leveraged AI-assisted development tools to accelerate design, coding, debugging, and documentation activities, improving development efficiency while maintaining high code quality and adherence to engineering best practices.

Senior Consultant
March 2024 – October 2025
Ernst & Young
Mumbai, India

Technologies: Java, Spring Boot, Microservices, REST APIs, OracleDB, Kafka, Redis

- Built a core backend mediator service using Spring Boot that interfaces between our internal microservices and the legacy enterprise service bus.
- Scaled the system to process high volumes securely, reliably handling over 5 million incoming and outgoing messages every single day.
- Designed a custom retry and queuing system (using Kafka and the Outbox pattern) to ensure no messages are lost and all data remains fully traceable, even during peak traffic.
- Integrated OracleDB for relational data, Redis for caching, MongoDB for NoSQL storage, and JPA with JPQL for database interactions. Advocated for JPQL over native queries to maintain clean, readable code aligned with best practices.
- Fast-tracked onto the project by mastering Java and Spring Boot from scratch on the job, delivering production-ready code with zero prior experience in the stack.
- Authored a comprehensive document outlining engineering best practices for development and testing, standardizing processes and improving code quality across the team.

Assistant Manager **December 2021 – March 2024**
Reliance Jio Infocomm Ltd. Mumbai, India

Technologies: Node.js, MongoDB, Video-On-Demand (VOD), Golang, Temporal workflow orchestration

- Designed and built a video content processing pipeline that automatically published FIFA highlights and replay videos within 10 minutes of upload, enhancing user experience.
- Led team of 4 developers to build and manage JioCinema CMS, a content management system powering 600K+ on-demand and live videos including FIFA matches. Improved video ingestion pipeline to process 800+ daily Video-On-Demand (VOD) uploads.
- Implemented features for video content packaging, utilizing technologies including Microsoft Smooth Streaming (MSS), 3GP, and FFmpeg.
- Streamlined the deployment and scaling process of a complex Java application by containerizing it, reducing 1–2 hours of manual work to a mere minute.

Backend Engineer **July 2019 – December 2021**
Square Panda Inc. Mumbai, India

Technologies: Node.js, REST APIs, Node.js Streams, MongoDB, Postgres

- Led integration of Razorpay payment gateway, enabling online payments.
- Introduced RFC (Request for Comments) driven development, improving collaboration and clarity across multiple product teams.
- Designed and implemented high-throughput data sync with Node.js streams to process 100K+ record changes from Clever, a digital rostering and SSO platform for schools in the USA, in a single run.
- Developed inventory management tool used by the operations team to process daily deliveries while reducing manual effort.
- Automated replication and migration of game files and metadata across regions, eliminating 3-4 hours of manual transfers daily across geographical areas of the USA, India, and China.
- Set up AWS CloudWatch for monitoring multiple microservices, the API response times, and EC2 host metrics.
- Identified and evaluated the technical feasibility and breadth of development work of new products, tools, and features as part of the R&D team.

Associate Backend Developer **May 2018 – July 2019**
Stylabs Mumbai, India

Technologies: Node.js, MongoDB, REST APIs, MySQL

- Designed and developed a loyalty program for an e-commerce portal, increasing sales by 10% through improved customer engagement and retention.
- Built cart microservice with Node.js and MongoDB, reducing page load time by 200ms and improving lead conversion rate by 23%.
- Integrated payment gateways including Juspay and PayPal, enabling online payments and improving checkout completion rate.

EDUCATION

Bachelor of Computer Engineering **2013 – 2017**
Mumbai University Mumbai, India

PUBLICATIONS

Study of Recommendation Engines for E-Commerce Websites **2017**

- International Journal Of Engineering Research & Technology (IJERT)