

Avinash Chandra

Lead Software Engineer @ **MakeMyTrip**

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Professional Summary

Lead Software Engineer with 7.9 years of experience in designing and delivering scalable, high-performance applications across fintech, payments, and e-commerce domains. Expertise in Java/J2EE, Spring Boot, REST APIs, SQL/NoSQL, and Microservices with proven success in architecting secure and reliable backend systems. Currently leading backend development for the Mmt Travel Card project, managing card onboarding, promotions, membership allocation, offers, and rewards points systems. Strong problem-solving and system optimization skills with a track record of driving projects from inception to production in Agile environments.

Technical Skills

- **Programming:** Java, Spring Boot, Hibernate, JPA, RESTful APIs, Microservices
- **Problem Solving:** Data Structures & Algorithms, System Design
- **Databases:** SQL (Oracle, MySQL), NoSQL (Aerospike)
- **Messaging & Streaming:** Kafka,
- **DevOps & Build Tools:** Maven, Jenkins, Git
- **Security & Payments:** HSM (enc/dec), Authentication by pin & Authorization
- **Testing & Quality:** JUnit, Mockito, Postman

Education

- **National Institute of Technology, Patna** – B. Tech in Information Technology (Jun' 17) | GPA: 7.02/10

Work Experience

- **Lead Software Engineer | MakeMyTrip | Jul' 25 – Present**
 - Managing backend services for MMT-ICICI Travel Card, covering secure onboarding, promotions, MMT Black allocation, and rewards management.
 - Designed and optimized APIs for card onboarding, offers, and reward points, ensuring smooth integration with ICICI systems.
 - Automated workflows for membership allocation and benefits, improving customer experience.
 - Built scalable microservices with **Java**, Spring Boot, Redis, and NoSQL, enhancing speed and reliability.
 - Collaborated with product, marketing, and banking teams to deliver **customer-focused loyalty features**.
 - Led performance tuning and production issue resolution, improving uptime and transaction throughput.
 - Developed and deployed a production-grade MCP (Model Context Protocol) server, integrating it with the IDE to create a seamless AI-assisted development workflow.
 - Accelerated code development and improved overall code quality by leveraging GenAI tools and strategic prompt engineering for rapid coding, debugging, and test case generation.

▪ SDE-III | Airtel Payments Bank | Dec' 22 – Jul' 25

- Led development of critical API services ensuring high availability, security, and seamless transaction processing.
- Architected a high-availability database strategy by pairing Oracle for transactional integrity with Aerospike to handle high-throughput, real-time workloads, ensuring data consistency across systems.
- Built secure PIN Management Systems with HSM, ensuring compliance with financial security standards.
- Automated recurring transactions with a Payments Scheduler, improving customer experience.
- Contributed to NCMC implementation (National Common Mobility Card), enabling seamless transit and retail payments.
- Optimized backend systems in a high-traffic environment, reducing performance bottlenecks and boosting transaction throughput.

▪ ASE-II | Optum Global Solutions | Oct' 21 – Dec' 22

- Built scalable web applications using Java technologies in Agile development environments.
- Developed backend services in Spring Boot + Microservices, ensuring scalability and fault tolerance.
- Designed custom exception handling frameworks, improving resiliency across distributed systems.
- Applied design patterns (Singleton, Factory) and optimized workflows for performance.

▪ Technology Analyst | Infosys | Jan' 18 – Sep' 21

- Architected and developed a new Java/Spring Boot microservices architecture, successfully migrating key e-commerce functionalities from a legacy .NET monolith.
- Enhanced the core platform by designing, developing, and integrating new RESTful APIs to support new business features.
- Ensured high system reliability and code quality by resolving complex production issues, writing comprehensive JUnit tests, and leading peer code reviews
- Designed and built a custom Java-based inventory management utility from scratch to automate data processing and Excel integration.