

Manpreet Singh Rana

+1-(438)924-9362 [Portfolio](#) | [Email](#) | [Github](#)

SUMMARY:

Full Stack Java Developer with 3+ years of experience in designing, building, and deploying scalable applications in Agile DevSecOps environments. Strong expertise in **Java 8+, Spring Boot, microservices, Kubernetes, and CI/CD pipelines**, with hands-on experience in **TypeScript/React (transferable to Angular)**. Skilled in developing secure, efficient APIs, optimizing SQL queries, and deploying distributed, containerized systems. Proficient in **monitoring, automation, and troubleshooting** using industry-standard tools (Prometheus, Grafana, Splunk, Jenkins).

TECHNICAL SKILLS

- **Languages & Frameworks:** Java 8+, Spring Boot (Core, IOC, AOP, Batch, MVC, JPA), Microservices, TypeScript, React, Next.js, Python (scripting), SQL
- **DevOps & CI/CD:** Jenkins, Git/Bitbucket, Maven, Gradle, Bamboo, TeamCity
- **Cloud & Containerization:** Kubernetes, Docker, Helm, Traefik, Azure, AWS (EC2, Lambda, S3, QuickSight, SageMaker)
- **Messaging & Distributed Systems:** Kafka, JMS, IBM MQ, Cassandra
- **Databases:** MySQL, SQL Server, MongoDB, RDBMS design, advanced SQL optimization
- **Monitoring & Observability:** Prometheus, Grafana, Splunk
- **Testing & Quality:** JUnit, Mockito, CI-integrated testing pipelines, secure coding practices
- **OS & Scripting:** Linux, Unix, Shell scripting
- **Methodologies:** Agile Scrum, DevSecOps, Continuous Integration/Delivery

EXPERIENCE

Technology Analyst | Infosys | Jan 2021 – Feb 2022 | Mangalore, India

- Designed and implemented **RESTful and SOAP APIs** using Spring Boot and Java 8 for high-traffic research platforms.
- Developed **microservices** with Spring Boot, enabling scalable deployments on cloud environments.
- Built and maintained **distributed messaging pipelines** with Kafka, JMS, and IBM MQ.
- Deployed and monitored applications on **Linux & Kubernetes clusters**, collaborating with DevOps teams.
- Implemented **multithreaded processing** with synchronization for real-time, high-throughput workloads.
- Optimized SQL queries and stored procedures in **MySQL and SQL Server**, reducing query times significantly.
- Created and maintained **CI/CD pipelines in Jenkins**, automating builds, tests, and deployments.
- Followed **secure coding practices** and participated in Agile ceremonies to refine requirements.

Systems Engineer | Infosys | Jul 2018 – Dec 2020 | Mangalore, India

- Executed **ETL data pipelines** across Oracle, Teradata, and Cassandra for analytics workloads.
- Automated workflows with **Python and shell scripts**, improving operational efficiency.

- Migrated workloads to **cloud-ready data warehousing**, improving reporting speed and data accessibility by 50%.

PROJECTS

Distributed Data Ingestion Platform | Apr 2024 – Sep 2024

- Deployed a **Cassandra cluster on Kubernetes** with K8ssandra and integrated Kafka for real-time ingestion.
- Reduced downtime by **95%** via automated Medusa backups and **Helm-based provisioning**.
- Configured **Traefik** for service discovery and load balancing.
- Monitored performance with **Prometheus & Grafana**, proactively resolving bottlenecks.

E-commerce Admin Dashboard & CMS | Apr 2024 – Sep 2024

- Built a **multi-vendor admin dashboard** with CRUD, filtering, analytics, and Stripe payments using **Next.js, React, TypeScript, Prisma, MySQL**.
- Designed secure authentication and intuitive UI—showing **transferable Angular/TypeScript skills**.

Next Gen Restaurant (Energy Management System) | Jan 2021 – Jun 2021

- Built an **IoT-powered energy management dashboard** with AWS (Lambda, SageMaker, QuickSight).
- Achieved **30% energy reduction** and **\$70,000 annual savings** with predictive analytics.

EDUCATION

Concordia University, Montreal, Canada — Master of Applied Computer Science (Sep 2022 – Apr 2024)

Punjabi University, Patiala, India — Bachelor of Technology, Computer Science & Engineering (Jun 2014 – Jun 2018)