

# Gaurav Sharma

## Senior Full Stack Software Engineer

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### SUMMARY

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Full Stack Software Engineer with **8+ years** building scalable, fault-tolerant backend systems and customer-facing applications at enterprise scale. Technical owner of end-to-end delivery across **Java, Spring Boot, REST APIs, CosmosDB, and React** on Azure, AWS, and GCP. Leads modernization initiatives, owns services through the full development lifecycle, and mentors junior engineers.

### TECHNICAL SKILLS

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**Languages:** Java 8, Python, TypeScript, JavaScript, Node.js, SQL, XML, JSON

**Backend:** Spring Boot, Spring MVC, Spring Security, Spring Data, Spring Batch, Hibernate, JPA, JDBC, REST API Design, Microservices, Distributed Systems, Event-Driven Architecture, Circuit Breakers, Retry and Timeout Patterns

**Frontend:** React, React Hooks, Context API, React Router, TypeScript, Redux Saga, Angular, HTML5, CSS3, Responsive Design

**Data:** CosmosDB, MongoDB, PostgreSQL, MySQL, MS SQL Server, DB2, Redis, Elasticsearch, Apache Kafka, Azure Service Bus, SQL Optimization

**Cloud and DevOps:** Azure (Functions, Logic Apps, Service Bus, CosmosDB), AWS (EC2, S3, Lambda, DynamoDB), GCP (Cloud Run, Firestore), Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Maven, Git

**Security and Testing:** Spring Security, OAuth 2.0, CVE Remediation, OWASP Top 10, Secure API Design, JUnit, Mockito, TDD, Integration and Regression Testing

**AI-Assisted Development:** GitHub Copilot, Claude, OpenAI APIs, Azure AI Document Intelligence

### PROFESSIONAL EXPERIENCE

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#### Manulife | John Hancock

Full Stack Software Engineer

Nov 2023 – Present

Toronto, ON (Remote)

- **Technical owner** of Document Processing System modernization covering **85% of enterprise mortgage workflows**, driving requirements, architecture, development, testing, deployment, and production support end-to-end.
- Built Java/Spring Boot microservices and React/TypeScript frontends for high-volume transactional workflows with strict reliability, consistency, and latency requirements.
- Designed REST APIs with distributed failure-handling patterns (timeouts, retries, circuit breakers) and event-driven architecture on Azure Service Bus.
- **Owned CosmosDB and NoSQL data layer** in high-scale production, including schema design, query optimization, and zero-downtime migration from MongoDB.
- Drove security posture across owned services: Spring Security, OAuth 2.0, CVE remediation, dependency upgrades, and OWASP-aligned API design.
- Built CI/CD pipelines (Jenkins, GitHub Actions) and owned Azure Disaster Recovery failover exercises using Terraform.
- **Mentored junior engineers** through structured knowledge transfer, pair programming, and code reviews; partnered with product, UX, and architecture teams in Agile/Scrum.
- Applied AI-assisted tools (GitHub Copilot, Claude) for code comprehension, large-scale refactoring, and test generation, validating all output for correctness and security.

## Cision

Software Developer II

Mar 2022 – Jul 2023

Toronto, ON

- Built high-scale Spring Boot microservices integrated with AWS (DynamoDB, S3) and GCP (Firestore, Cloud Storage, Cloud Run).
- **Owned the AWS-to-GCP migration** for core platform microservices, improving scalability and reducing infrastructure cost.
- Refactored legacy Spring MVC to Spring Boot with Spring Data JPA and Spring Security; containerized services for Kubernetes deployment via Jenkins and GitHub Actions.
- Optimized runtime performance using Java 8 streams, lambdas, and multithreading; delivered React frontend features.

## Manulife

Associate Full Stack Engineer

Dec 2020 – Mar 2022

Waterloo, ON

- **Co-led the Case Import team**, owning defect triage, release readiness, and delivery coordination across sprints.
- Built transactional applications using Spring Boot, Spring Security, Hibernate/JPA, React, Redux, and Node.js; migrated MongoDB to CosmosDB on Azure.
- **Reduced React deployment time by 89%** (9 minutes to 1 minute) through static deployment and CI/CD optimization; integrated DocuSign webhooks and Apigee proxies.

## Farrow

Web Application Developer

Feb 2019 – Nov 2020

Windsor, ON

- Designed Spring Boot microservices and REST APIs integrating EDI (ANSI X12), DB2, and legacy systems for high-volume customs brokerage workflows.
- **Improved batch processing performance by 40%** using Java 8 multithreading in Spring Batch; resolved a critical crash occurring during peak load.
- Owned SFTP integrations, cron scheduler jobs, and a batch failure notification system for automated partner file exchange.

## CatalystOne Solutions

Associate Java Developer

Jul 2014 – Dec 2015

Chandigarh, India

- Delivered CatalystOne Cloud Management (CCM 1.0 and 2.0) end-to-end using Java, Spring MVC 4.0, Hibernate ORM, MS SQL Server, and EmberJS.
- **Led Spring MVC 4.0 training workshops** for other engineering teams; presented weekly demos directly to clients.

## SELECTED PROJECT

### Medical Domain Categorization Framework

IEEE Published, 2020

- Published in *IEEE Transactions on Computational Social Systems* (vol. 7, no. 1, pp. 129–140). Designed a Java and MongoDB pipeline processing **3 million records** through REST API integrations with Twitter, BioPortal, and UMLS.

## EDUCATION

### Lakehead University

Master of Science, Computer Science

2016 – 2018

Thunder Bay, ON, Canada

### Lovely Professional University

Bachelor of Technology, Computer Science and Engineering

2011 – 2014

Punjab, India

## CERTIFICATIONS

Microsoft Azure Fundamentals (AZ-900) – Cloud Concepts, Azure Architecture and Security