

JASKARAN SINGH

Senior Software Developer | Full Stack | Java | Spring Boot | Microservices | Cloud

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Permanent Resident of Canada — open to relocation and hybrid/remote roles

PROFESSIONAL SUMMARY

Award-winning Software Developer with 4+ years of experience architecting, building, and shipping enterprise-grade backend and full-stack solutions across printing technology, healthcare, and e-commerce. Specialized in Java, Spring Boot, RESTful microservices, secure system integrations (OAuth 2.0, EWS, certificate-based authentication), and Google Cloud Platform. Authors HLD/LLD design documents, runs static analysis at multi-million-line scale, and ships production-ready code backed by JUnit/Mockito test suites and CI/CD pipelines. Delivered high-impact customizations for Fortune 500 clients including Amazon, Siemens, IBM, and Wells Fargo, drove a 70% reduction in client-reported defects, and led a 3-person team in the Google BigQuery AI Hackathon (BigFrames track). Recognized as a Subject Matter Expert who mentors peers on architecture and code quality within Agile/Scrum environments.

TECHNICAL SKILLS

Languages: Java, C#, C++, JavaScript, SQL, HTML5, CSS3

Frameworks & Libraries: Spring Boot, Spring Security, Spring MVC, Hibernate, JPA, JSP, Servlets, JUnit, Mockito, Bootstrap

Architecture & APIs: Microservices, RESTful APIs, MVC, Object-Oriented Design (OOP), SOLID Principles, Multithreading, OAuth 2.0, Microsoft Exchange Web Services (EWS), Certificate-based Authentication, HLD/LLD Design, Static Code Analysis

Databases: MySQL, Microsoft SQL Server, MyBatis, JDBC

Cloud & Big Data: Google Cloud Platform (GCP), BigQuery, BigQuery ML, BigFrames

AI/ML: Generative AI integration, Gemini LLM API, BigQuery ML, prompt engineering

DevOps & Tools: Git, GitHub, SVN, Jenkins, Maven, Ant, JIRA, Confluence, Postman, Azure DevOps, Coverity, Docker

Methodologies: Agile (Scrum), Waterfall, SDLC, Test-Driven Development, Code Reviews, CI/CD

PROFESSIONAL EXPERIENCE

Ricoh Canada Inc., Kitchener, ON

Sept 2022 – Present

Software Developer II

- Engineered a **Print by Mail feature** using Microsoft Exchange Web Services (EWS) with certificate-based and OAuth 2.0 client-secret authentication. Enabled secure email-to-print workflows processing **1,000+ print jobs per day** across pilot deployments.
- Drove end-to-end development of a **QR-code-based scan-to-print release feature** for the Ricoh mobile application, eliminating manual device setup and cutting print job completion time by **15%** across enterprise deployments.
- Architected the **Brother SLNX Integration (BSI) middleware**, enabling Ricoh-to-Brother MFP communication and unlocking print/scan functionality on Brother hardware without StreamLine NX, expanding the addressable market by **10,000+ potential clients**.
- Spearheaded the strategic redesign of the critical **XDP (Extended Device Preference) module**, authoring HLD/LLD design documents and driving a **70% quarterly reduction in client-reported defect tickets**, significantly lowering long-term support overhead.
- Executed **Coverity static analysis** across a **2M+ line enterprise codebase**, troubleshooting system-level constraints including memory exhaustion during callgraph computation to surface and prioritize critical defects before release.
- Owned and delivered priority customizations for **Fortune 500 clients including Amazon, Siemens, IBM, and Wells Fargo**, serving as primary developer on 8+ enterprise tickets and resolving priority-1 issues under tight SLAs.
- Initiated and owned internal automation tools that streamlined core business workflows, contributing to a **15% increase in operational efficiency**, while serving as Subject Matter Expert (SME) advising regional stakeholders on architecture and R&D direction.
- Authored unit and integration tests with JUnit and Mockito within an Agile/Scrum environment, collaborating cross-functionally with QA, Product, and DevOps teams using JIRA, Git, Jenkins, and Azure DevOps CI/CD pipelines.

Agfa HealthCare, Waterloo, ON

Sept 2021 – Dec 2021

Java Software Developer (Co-op)

- Refactored Java/JBoss code modifications across **50+ packages** for the company's flagship medical imaging platform, owning the full cycle from commit to PR review and automated test monitoring.

- Configured **Server Rules (ILMs)** that improved server processing efficiency by **over 2x**, directly enhancing throughput for clinical environments.
- Diagnosed critical defects by analyzing server, JUnit, and Jenkins logs, cutting average troubleshooting time by approximately 30% and improving deployment success rates.
- Provisioned and maintained a development sandbox to validate **200+ user stories** via local automated testing before integration.

Percept Technologies, Delhi, India

Jan 2019 – June 2020

Java Software Developer

- Built Spring Boot backends and JSP/JavaScript front-ends for 5+ web and desktop products, delivering responsive UIs that **reduced page load time by 40%** and lifted user engagement metrics by 20%.
- Optimized application performance through multithreading and structured exception handling, improving stability under concurrent loads and lowering average response times by 25%.
- Partnered with senior engineers on database design (MySQL), REST API development, and code reviews aligned with SDLC best practices.

KEY PROJECTS

Auto-Claim Genius — AI-Powered Insurance Claims Analysis (Team Lead, Google BigQuery AI Hackathon)

[GitHub](#)

- Guided a 3-person cross-functional team to build an AI-driven claims resolution engine automating damage assessment using **BigQuery ML and Generative AI (Gemini LLM)**, cutting manual claims review effort by approximately 60%.
- Architected the end-to-end system combining BigQuery, BigFrames, and Gemini API for scalable, multimodal claims processing, increasing data coverage by **25%** for enhanced damage analysis.
- Directed sprint planning, task delegation, and stakeholder demos, ensuring on-time delivery of all 4 project milestones.
- Tech: *Google BigQuery, BigQuery ML, Python (BigFrames), Gemini LLM API, Generative AI.*

Caffena — E-commerce Platform for Coffee Equipment

[GitHub](#)

- Built a full-stack e-commerce site enabling users to purchase coffee machine spare parts and accessories, with secure user authentication, role-based access, and integrated payment processing.
- Tech: *Java, Spring Boot, Spring Security, Hibernate, MySQL, JSP, Bootstrap, JavaScript, Payment Gateway.*

Clothes On Search — Fashion E-commerce Web Application

[GitHub](#)

- Architected a multi-vendor fashion e-commerce platform with cart, checkout, and order management workflows handling 500+ SKUs.
- Tech: *Java, Spring Boot, Hibernate, MySQL, JSP, Bootstrap, JavaScript, Payment Gateway.*

Dentist Clinic Management System — WPF Desktop Application

[GitHub](#)

- Built a desktop application for clinic operations management (adaptable to other medical practice contexts). Tech: *C#, WPF, XML, LINQ.*

EDUCATION

Postgraduate Certificate, Mobile Solutions Development

May 2021 – Aug 2022

Conestoga College, Kitchener, ON | GPA: 3.95 / 4.0 (High Distinction)

Bachelor of Technology, Computer Science & Engineering

Apr 2016 – May 2020

I.K. Gujral Punjab Technical University, Punjab, India | CGPA: 7.89 / 10

AWARDS, ACHIEVEMENTS & PUBLICATIONS

- **High Performing Employee Award** — Ricoh Canada (2022, 2023, 2024, 2025)
- **High Distinction Postgraduate Award** — Conestoga College (GPA 3.95 / 4.0)
- **Best Capstone Project Award** — Conestoga College
- **Publication:** Singh, J. (2017). "A Review Study on Blue Brain Technology". International Journal of Technology and Computing (IJTC), August 2017.