Derek Serrano

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Full-stack Software Engineer with 2+ years experience building production SaaS applications using Java (Spring Boot) and TypeScript. Strong background in CI/CD, containerized infrastructure, and production reliability.

EXPERIENCE

Software Engineer – Intact Insurance   June 2024 – present

- Designed and built SaaS application end–to–end with Java (Spring Boot) and TypeScript/Angular across a ~20 microservice architecture, supporting 50K+ daily active users
- Owned feature development and production support for 3–5 microservices, contributing to bi-weekly releases for $1M+ commercial insurance products
- Deployed dockerized microservices on Kubernetes/OpenShift with Jenkins CI/CD pipelines, implementing Kafka messaging and Redis caching to reduce API latency by 30%
- Led remediation of 1,000+ security and code vulnerabilities across ~20 services, working with security tooling (Prisma Cloud, Veracode), reducing critical vulnerability backlog by ~100% and meeting compliance deadlines
- Owned migration of 10+ microservices from Spring Boot 5 to Spring Boot 6, addressing breaking changes, resolving dependency conflicts and preventing production regressions
- Led production incident response using Dynatrace and Elasticsearch to identify root causes, reducing mean time to resolution (MTTR) by 35%

Software Engineer Intern – Intact Insurance   May 2022 – Aug 2023

- Contributed to backend feature development and bug fixes within a Java-based microservices system
- Gained hands-on experience with CI/CD pipelines, code reviews, and production release processes

Machine Learning Research Assistant – Healthcare Systems R&A   May 2021 – August 2021

- Collaborated with researchers and engineers to develop computer vision–based image processing tools for lab testing workflows
- Implemented and evaluated ML techniques including SVMs and neural networks, contributing to experimental pipelines and model validation
- Built client–server components to support internal tools and prototypes used in research settings

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, C/C++, SQL
Frameworks & Architecture: Spring Boot, Angular, REST APIs, Microservices, Distributed Systems
Infrastructure: AWS, Kubernetes, OpenShift, Docker, Kafka, Redis
CI/CD & Tooling: Jenkins, Git, Nexus, Dynatrace, Elasticsearch

EDUCATION

Bachelor of Computer Engineering/ McMaster University • 2019-2024 • **GPA**: 3.9