

# Spencer Manzoni

Staff Software Engineer | Java / Spring Boot / SaaS Platform

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## PROFESSIONAL EXPERIENCE

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**Staff Software Engineer**, *Black Duck Software Inc. (formerly SIG – Synopsys Inc.)*

October 2024 – July 2025

- Retained responsibilities through carve out and continued developing and maintaining key microservices for the Polaris SaaS platform using Java and Spring Boot, contributing to authentication, authorization, audit logs and notification capabilities of the application.
- Spearheaded the design and implementation of a comprehensive solution to support the company-wide rebranding initiative, ensuring seamless continuity with existing systems.
- Led the integration effort for the Polaris SaaS platform with a new identity provider, successfully navigating the transition while ensuring continued support for the existing implementation.

**Senior Software Engineer**, *Software Integrity Group (SIG) - Synopsys Inc.*

October 2022 – October 2024

- Developed and maintained key microservices for the Polaris SaaS platform leveraging Java and Spring Boot, contributing to authentication, authorization, audit logs and notification capabilities of the application.
- Integrated Red Hat SSO and leveraged Kong API Gateway to develop a multi-tenant Identity and Access Management (IAM) service, supporting OpenID Connect and SAML Single Sign-On.
- Developed a robust Role-based Access Control (RBAC) system using Postgres, ensuring secure and granular control over user access and data permissions.
- Designed and implemented standardized REST APIs for both internal microservice communication and external customer integration, complete with comprehensive documentation adhering to OpenAPI specifications.
- Spearheaded feature development for custom roles, increasing sales and securing contracts with new customers.
- Led cross-functional teams through the complex migration and upgrade of Red Hat SSO, ensuring a seamless transition with zero downtime and developing comprehensive documentation to streamline future upgrades.
- Facilitated technical discussions with stakeholders, effectively communicating complex solutions and securing buy-in on key architectural decisions.
- Developed and integrated unit and integration tests using JUnit and Mockito, achieving more than 90% code coverage which enhances overall code stability and reliability.
- Rapidly diagnosed and resolved critical production issues, minimizing downtime and maintaining high levels of system stability.
- Actively participated in code reviews, providing constructive feedback to enhance code quality, maintainability, and adherence to coding standards.
- Facilitated daily stand-ups, sprint planning, and retrospectives as Scrum Master, fostering a collaborative and productive environment across geographically dispersed development teams.
- Investigated and resolved complex customer issues, collaborating with customers to identify root causes and implement effective solutions.

**Software Engineer in Test**, *Software Integrity Group (SIG) - Synopsys Inc.*

October 2018 – October 2022

- Developed and executed comprehensive test plans, test cases, and automated test scripts (using Selenium with Java) to validate software functionality against requirements and user stories.
- Analyzed regression test results, identified root causes and collaborated with development teams to ensure product quality.
- Utilized Jira to document and communicate findings, including detailed reproduction steps, contributing to efficient bug resolution.

## EDUCATION

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**University of Calgary**, *Bachelor of Science in Computer Science with Distinction*

September 2013 – April 2018

- Selected Projects
  - **Snapback Web Application** for the Web-based Systems course
    - Designed and developed a web app using HTML, CSS and various JavaScript technologies
  - **Recreation Centre Android Application** for the Human-Computer Interaction course
    - Researched, designed, prototyped, tested, evaluated and presented a usable interface for people
  - **Your Life Counter Android Application** for the Software Analysis and Design course
    - Developed software using Android Studio while exercising the Agile methodology
  - **Medical Clinic Database Management System** for the Database Management Systems course
    - Designed and created a database and its management system using MySQL, HTML and PHP
  - **SnakeTRON Game in ARM Assembly** for the Computing Machinery course
    - Programmed in bare metal ARM Assembly using the Raspberry Pi Model B

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, Golang, SQL

**Technologies:** Spring Boot, Red Hat SSO, Kong API Gateway, OpenID Connect, SAML 2.0, SSO integration with Okta and Microsoft Entra, OpenAPI, RabbitMQ, Redis, PostgreSQL, Hashicorp Vault, Protobuf

**Tools:** Git, Jira, Confluence, Docker, Kubernetes, Google Cloud Platform, Harness, Postman, JUnit, Mockito, Selenium, Datadog, IntelliJ