

Kyle Milchard

Backend / Full Stack Software Engineer

416-473-8646
kylemilchard@proton.me
Guelph ON, Canada

Senior Full Stack Software Engineer with 12 years of experience designing, building, and maintaining enterprise applications using Java, Spring, Angular, and SQL Server. Experienced in developing RESTful APIs, modernizing legacy systems, and delivering scalable, secure software from concept through production. AWS Certified Solutions Architect with hands-on experience using cloud technologies.

Experience

LandLord Property & Rental Management Inc. - Toronto, ON

Senior Software Developer / Oct 2019 – Present

Software Developer / Jul 2014 – Oct 2019

Backend Systems & API Architecture

- Technical lead and primary owner of a mission-critical property management platform used by a business managing 1,200+ properties.
- Migrated legacy Struts 1 application to Spring Framework, reducing code complexity and improving deployment reliability across multiple client environments.
- Designed and implemented REST and GraphQL APIs to support web, mobile, and third-party integrations.
- Designed normalized relational database schemas and optimized complex SQL queries, improving query performance and reducing response latency.
- Built full-stack features using Java, Spring Boot, Angular, JSP and SQL Server.
- Consumed third-party REST APIs.
- Wrote maintainable production code for business-critical applications.

Product & Feature Ownership

- Diagnosed and resolved production issues across application, database, and infrastructure layers, performing root cause analysis and implementing long-term corrective solutions.
- Investigated and resolved software defects while maintaining business-critical applications using Git-based version control and collaborative development workflows.
- Developed a real-time client portal using Java, Spring, Tomcat, and SQL Server.
- Designed and implemented a full lifecycle work order management system handling scheduled, ad hoc, and emergency maintenance.
- Built secure email delivery workflows using Microsoft Graph API with delegated permissions and OAuth2 authentication (MSAL4J).
- Integrated custom invoicing functionality directly into operational workflows to streamline billing.
- Replaced manual PDF-based client workflows with a dynamic online forms.
- Automated multiple internal office processes, significantly reducing manual administrative overhead.
- Designed and delivered new features from requirements through production deployment.
- Collaborated with business stakeholders to translate operational requirements into software solutions.
- Diagnosed and resolved production issues across application, database, and infrastructure layers.

Security & Authentication

- Integrated Spring Security with stateless authentication using JWT access and refresh tokens.
- Implemented multi-factor authentication (2FA) and role-based authorization controls.
- Designed secure token handling strategies for API authentication and external integrations.
- Applied encryption strategies to protect sensitive tenant and financial data.

Mobile & Platform Extensions

- Led a small team to develop an iOS inspection application using Swift.
- Built and deployed a custom Office 365 Outlook add-in using Node.js and Angular, containerized with Docker.

Cloud & Infrastructure (AWS)

- Built and deployed non-production environments in AWS for testing and architectural exploration.
- Containerized applications using Docker to improve environment consistency.

Certifications

AWS Solutions Architect: Associate

Technical Skills

Languages: Java (Primary), TypeScript, SQL, C#, Swift, PHP, Bash

Backend: Spring Boot, Spring MVC, Spring Security, REST, GraphQL

Databases: SQL Server, Database Design, Query Optimization

Frontend & Web: Angular, Node.js, HTML, CSS, JavaScript

Tools & Platforms: Git, Maven, Docker, Tomcat, Linux, Windows, MSAL4J, Microsoft Graph API

Education

Ryerson University / [Digital Security Certificate Program](#)

September 2016 - May 2018

Certificate in Digital Security.

George Brown College / [Advanced Diploma in Programming and Analysis](#)

January 2012 - July 2014, Toronto ON

Graduated with honors.