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EDUCATION

York University – Lassonde School of Engineering

Toronto, ON

Honours B.Sc. in Computer Science

Aug 2021 – May 2026

- **Coursework:** Advanced Object Oriented Programming (Java), Data Manipulation & Pattern Analysis (Python), AI & Logic Programming (Prolog, Search Algorithms), Software Design, Database Systems, Design and Analysis of Algorithms, Data Structure

EXPERIENCE

Software Engineer Intern (12 months)

Toronto, ON

Moneris Solutions: Canada's top payment solutions provider

April 2023 – May 2024

- **Built and deployed** a **Java-based** File Comparison Tool to automate validation of merchant reports from legacy vs. migrated systems, implementing parsing and comparison algorithms to detect mismatches; **reduced** manual validation time by **60%**.
- **Reduced** backend API errors by **40%** by implementing **Bean Validation** and centralized exception handling in Spring Boot.
- **Integrated** Postman and Newman **test automation** into **CI/CD** pipeline; enabled regression testing for **API** contract stability.
- **Collaborated** with QA and developers using **Azure DevOps**, **Jira** and **Confluence** within **Agile** boards and sprint ceremonies. Delivered production-ready tools iteratively aligned with project goals.
- **Refactored** complex **SQL** queries and **Spring Boot** services to improve runtime performance of key Moneris applications.
- **Analyzed** and resolved production bugs by inspecting logs, tracing issues in **microservices**, verifying fixes with automated tests.
- Experience with **Kafka** for supporting **real-time data streaming** and message-driven microservices.
- **Documented** technical workflows, API contracts, and tool usage guides, ensure maintainability across dev teams.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, C, HTML/CSS, Ruby, Bash, Prolog

Frameworks & Libraries: React Js, Spring Boot, JUnit, Vert.x, Ruby on Rails, Randoop, Selenium

Tools and Technologies: Git, Docker, Azure DevOps, Apache Kafka, Postman, MySQL, REST, Microsoft Office, AWS

PROJECTS

Synapse: Capstone Project - YorkU x TD Bank ([GitHub Link](#))

Python, FastAPI, TypeScript, NestJS, Next.js, MongoDB, Auth0, Atlassian Forge

Sep 2025 – April 2026

- Built a Human-Centered AI Assurance Framework for TD Bank scoring Jira user stories in real time against a versioned AI/privacy policy framework, surfacing violations and remediation hints inline via an Atlassian Forge plugin
- Designed a Python/FastAPI risk-scoring microservice with OpenAI Structured Outputs and a hierarchical policy schema; shipped a NestJS + MongoDB API with full CRUD, activation workflows, revision history, and Auth0 RBAC
- Deployed services to Render with a Next.js admin console.
- collaborated within a multidisciplinary team of 7 to deliver a cohesive full-stack governance platform under real client constraints

Batch-File-Reconciler ([GitHub Link](#))

Java, Maven, JUnit

May 2025

- **Engineered** a Java CLI tool for bulk file comparison across two source directories, supporting both delimited and fixed-width formats with configurable field-level normalization.
- Implemented streaming I/O for memory-efficient processing of large files, optional multi-threaded execution, and schema-driven comparison logic with header/trailer handling.
- Generated structured JSON/CSV mismatch reports and CI/CD-compatible exit codes, streamlining reconciliation workflows across high-volume batch processing pipelines.

campus-lot-manager ([GitHub Link](#))

Java, JavaFX, Maven, JUnit, Selenium, Randoop

Mar 2025

- **Designed** a full-stack parking lot management app with dynamic space reservation, access control, and real-time sensor tracking.
- Wrote **manual test cases** and implemented automated tests using **Selenium** and **Randoop**; Randoop was used to generate unit tests, while **Selenium** was used for browser-based UI testing.
- Measured **code coverage** and **mutation scores** to evaluate and improve the effectiveness of all test strategies.

CERTIFICATIONS

AWS Certified Cloud Practitioner

2026