



## PROFESSIONAL EMPLOYMENT

CLARI, TORONTO, ON, AUGUST 2022 TO PRESENT

### SOFTWARE ENGINEER II (BACK-END), INFRASTRUCTURE

- Designed and implemented a modern feature flag system using third-party tools, replacing outdated internal tools, resulting in streamlined management, reduced load latency, and enhanced feature delivery
- Spearheaded the upgrade of the entire core service from Java 8 to Java 17, resolving currency symbol challenges and ensuring seamless API export and service continuity
- Optimized backend service artifact versioning to address Gradle task bottlenecks, reducing cross-team support by 4% weekly and improving development workflows
- Constructed a Python script to automate the generation of backend service breakout templates, successfully completing 5+ service breakouts

HSBC, TORONTO, ON, MARCH 2021 TO JULY 2022

### SOFTWARE ENGINEER (FULL-STACK), EQUITY FINANCING SYSTEM

- Implemented Control-M job sequences for daily prime rate fetch automation with AMEA/EMEA support, improving data processing reliability in production
- Crafted and built microservices for internal financial and billing systems using Spring Boot, Hibernate, and PostgreSQL, creating REST APIs to enhance financial sector infrastructure
- Orchestrated a Jenkins CI/CD pipeline for microservice deployments, introducing unique labeling and versioning to streamline release processes and increase agility

EQUIFAX, TORONTO, ON, JULY 2019 TO JANUARY 2021

### SOFTWARE ENGINEER (JAVA), DATA FABRIC

- Developed a modern data migration tool and a data transformation plugin using Java, Spring Boot, Apache Avro, and Oracle SQL, increasing pipeline accuracy by 30% on one million scrambled raw records
- Established an end-to-end CI/CD pipeline in Jenkins for a Spring application, integrating Fortify coverage reports, Sonar metrics, Nexus repository management, and UAT environment configuration, reducing latency by 16%
- Formulated JSON payloads (including data profiles, catalogs, and schemas) for non-production environment readiness, serving Open-API Specifications in Swagger UI
- Utilized functional programming principles to analyze and optimize a proprietary Scala application that read data from on-premises HDFS and persisted data comparison results in PostgreSQL

## PROJECT EXPERIENCE

**WALK OR WAIT: REAL-TIME TRANSIT DECISION APP**, JUNE 2019 TO JULY 2019

- Co-created a public transit waiting time algorithm with real-time data integration, empowering commuters to make informed decisions based on accurate next-vehicle arrival predictions
- Partnered with a team of front-end developers to build a comprehensive web-based CRUD application using React.js for UI components and Node.js for backend data flow, delivering a seamless user experience
- Conceptualized a relational database schema that converted JSON responses into a temporary relational database, integrating predictive analytics to improve bus arrival time predictions, enhancing the application's utility and user satisfaction

## EDUCATION AND CREDENTIALS

MASTER OF SCIENCE (M.SC.) IN ANALYTICS, APRIL 2021

Georgia Institute of Technology, Atlanta, GA

BACHELOR OF MATHEMATICS (COMPUTER SCIENCE OPTION), DECEMBER 2018

University of Waterloo, Waterloo, ON

FULL STACK FLEX PROFESSIONAL PROGRAM, JULY 2019

University of Toronto Coding Boot Camp, Toronto, ON

**AWS** CERTIFIED: [Associate Developer](#) | [Specialty Machine Learning](#)

**MICROSOFT** CERTIFIED: [Azure Developer](#) | [Azure Data Engineer](#) | [Azure Data Scientist](#) | [Azure AI Engineer](#)

**GOOGLE CLOUD** CERTIFIED: [Associate Cloud Engineer](#) | [Professional Data Engineer](#)

## EXTRACURRICULAR ACTIVITIES

**MONGODB DEVELOPER DAY**, OCTOBER 2023

- Acquired in-depth knowledge of vector search capabilities through OpenAI's embeddings API and presented insights to the team at Clari, demonstrating how to optimize data application performance