

Charlene Noye

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EDUCATION

York University - Lassonde School of Engineering
Honours Bachelor of Science (BSc) Computer Science

June 2025
Toronto/ON

Technical Skills

Languages: Java, Python, TypeScript, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: Spring Boot, React, React Native, Expo

Databases & Tools: MySQL, MongoDB, Neo4j, Apache Kafka, Apache Spark, Apache Airflow, Docker, AWS (Lambda, S3), Git, Linux

WORK EXPERIENCE

Citigroup **July 2025 – Present**
Mississauga, ON
Technology Analyst

- Engineered a full-stack risk reporting platform using **React** and **Spring Boot**, streamlining global reporting workflows for a team of **50+** analysts and reducing report generation time.
- Built and maintained **Apache Airflow** DAGs to automate multi-region ETL pipelines, improving data validation and job scheduling reliability.
- Optimized nightly batch processing by implementing a partition-based database truncation strategy, cutting data deletion time by **85%** and reducing system maintenance windows.

Citigroup **May 2024 – August 2024**
Mississauga, ON
Software Engineer Intern

- Developed and deployed high-throughput **Kafka** microservices in Java to implement Drop Copy functionality, reducing message processing errors by **30%** for a system handling **100,000+** daily trading messages.
- Extended a **Python** testing framework with **QuickFIX/J** support, enabling automated FIX message validation over TCP/IP for **10+** trading venues across North America and Europe.
- Designed and implemented a robust **TCP/IP** retry mechanism for FIX session connectivity, decreasing message loss by **15%** during peak network traffic periods.

PROJECTS & ACHIEVEMENTS

AI-Powered Repository Health System | GitHub API, GraphQL, Node Microservices, React, AI/ML

- Architected a microservices-based platform that analyzes codebases for maintainability, stale branches, and dependency drift by aggregating data from **GitHub's REST** and **GraphQL APIs**.
- Implemented a semantic analysis engine to process commit histories and PR interactions, enabling an AI module to autonomously generate refactor plans and detect dead code.
- Awarded **2nd** place (North America) at the Citi Hackathon for innovation and technical complexity in developer tooling.

JP Morgan Software Engineer Virtual Experience | Python, Typescript

- Debugged and optimized broken files in the repository using **Python**, enhancing the functionality of a financial data visualization web application.
- Built a live, interactive graph leveraging **JPMorgan Chase's Perspective library**, integrating **React** and **TypeScript** to visualize real-time financial data feeds for traders.