

# Charlene Noye

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## EDUCATION

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York University - Lassonde School of Engineering

Expected Graduation 2025

Bachelor of Science (Bsc) Computer Science

Toronto/ON

**Key Coursework** : Intro to Database Systems, Machine Learning, Data structures & Algorithms, Operating Systems, Project Management, Software Design

## Technical Skills

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**Languages & Frameworks** : Java, Python, HTML/CSS, JavaScript, C/C++, React

**Database - Networking** : MySQL, NoSQL, Neo4j

**Tools & Platforms** : Git, Linux, shell scripting, AWS (Lambda, S3), Kafka

## WORK EXPERIENCE

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CitiGroup

May 2024 – August 2024

Software Engineer Intern

Canada/Mississauga

- Enhanced an existing testing framework by adding support for **QuickFIX** using Python, enabling message sending over TCP/IP for over 10+ venues across North America and Europe.
- Developed and deployed **Kafka** microservices in Java to implement Drop Copy functionality, reducing message processing errors by **30%** during daily trading of over 100,000 messages.
- Developed TCP/IP retry mechanisms for FIX message processing, reducing message loss by **15%** during peak network traffic.

Marymount International School

May 2022 – August 2022

IT Support Specialist

Ghana/Accra

- Designed and developed a **Tuck Shop Management System**, using **Spring Boot**, **PostgreSQL**, and **Hibernate**, to streamline inventory tracking, sales management, and reporting.
- Utilized **SQL** and **Spring Data JPA** for complex querying and data persistence, reducing query time by optimizing database relationships.
- Collaborated with the school's IT team to **enhance and scale administrative software**, ensuring long-term reliability and performance.

## PROJECTS & ACHIEVEMENTS

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**Music Originality and Inclusivity Platform** | [Source code](#)

- Built a custom Dual-headed LSTM model using **PyTorch** for advanced melody and lyric analysis, capturing and remembering long sequences for accurate detection.
- Integrated multiple **Cohere API** endpoints ( Summarize, Rerank, Chat with RAG, Classify, Embed ) for semantic analysis and text summarization, enhancing the platform's capability to evaluate song content.

**Technologies** : PyTorch, Cohere API, Python, Flask, Numpy, Next.js

**Machine Learning Model for Credit Card Fraud Detection** | [Source code](#)

- Developed a cutting-edge credit card fraud detection system using **Python**.
- Leveraged advanced machine learning libraries, including **Scikit-learn**, to achieve **93%** accuracy on test data.

**Technologies**: Python, Scikit-learn

**JP Morgan Software Engineer Virtual Experience**

- Configured a local development environment using **Git** to manage repositories and ensure version control.
- 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.
- Applied **financial analysis** and worked with **financial data** to design and test responsive web applications that meet user needs.

**Technologies**: Python, React, Typescript

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