

Charlene Noye

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EDUCATION

Lassonde School of Engineering - York University

Expected June 2025

Bachelor of Science (Bsc) Computer Science

Toronto/ON

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

WORK EXPERIENCE

CitiGroup

May 2024 – Aug 2024

Software Development 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.
- Implemented and extended **Kafka** microservices in Java to include Drop Copy messages, improving message reliability and audit trails for daily trading volumes of over 100,000 FIX messages.
- Optimized FIX message processing by implementing retry mechanisms, leading to a **30%** reduction in message loss during high network traffic

JP Morgan Chase & CO

Oct 2020 – Jan 2021

Software Engineer Apprentice

United Kingdom/London

- Developed and optimized a real-time stock market data interface using **React.js**, enhancing trader experience with live visualizations.
- Integrated backend functionalities in **Python** (Flask) and Java (Spring Boot), achieving a 50% improvement in data processing speed.
- Worked on improving the scalability and resilience of stock market API interactions, ensuring real-time updates in high-demand scenarios.

PROJECTS

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

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

ACTIVITIES & LEADERSHIP

NSBE Hackathon Winner

Feb 2024

- Led the frontend aspect for my team at the NSBE (National Society of Black Engineers) hackathon, resulting in victories across multiple categories including Best Use of **FLOW**, Best BFN, and receiving an Honorable Mention from **Cohere**

Technologies

Languages & Frameworks : Java, Python, HTML/CSS, JavaScript, SQL, C/C++ , Spring Boot, React, Node.js

Database - Networking : MySQL, Postgres, NoSQL, Neo4j

Tools & Platforms : Git, GitLab, Linux, shell scripting, AWS (Lambda, S3), Kafka, DevOps, Docker