Neel Oza

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Education

McMaster University | Hamilton, ON

B.S. in Honours Computer Science | Minor in Mathematics | **CGPA: 3.80/4.0** **September 2023 - May 2027**

Courses: Data Structures & Algorithms, Databases (SQL), OOP (Java), Development Basics (Linux, C, Bash), Statistics

Professional Experience

Scotiabank | Data & Analytics Intern | September 2025 – Present

- Optimize **SQL queries** and **stored procedures** across **millions of records**, improving performance
- Develop **large-scale SQL ETL pipelines (Python**, **Power BI)**, ensuring data **integrity, consistency** and **validation**
- Build **scalable executive dashboards** in **Power BI** and **Excel** tracking KPIs, enabling data-driven decisions
- Document solutions, workflows, and troubleshooting to present to stakeholders in a concise manner

Quotograph | Full Stack Developer | July 2025 – August 2025

- Developed browser games, with **React.js, JavaScript, and SCSS,** increasing responsiveness by 25%
- Implemented **ML-driven features** (PyTorch, LLMs) to sync **front-end with system outputs**
- Cut release time **by 20%**, implementing **CI/CD pipelines (GitHub Actions, npm)** with **unit & integration testing**
- Reduced **latency by 30%** by integrating **async REST APIs with state management**

Absolute Finance | Data Analyst | May 2025 – July 2025

- Reduced manual processing by 50% by automating **ETL pipelines** using **SQL and Deluge scripting**
- Designed interactive dashboards in **Zoho Analytics** for real-time **KPI tracking** and **client reporting**
- Delivered insights that improved **forecasting accuracy by 15%** by collaborating with **finance** and **operations teams**

Projects

Collision Detection [GitHub] | Java, OOP, JUnit, UML

- Developed a **Java 2D collision detection system** (AABB, circle, polygon) with **JUnit testing** for accuracy
- Implemented **OOP design** with JUnit **unit tests validating software correctness**.

Cybersecurity System [GitHub] | Python (OpenCV, Flask, Cryptography), SQL, Git 2nd Place @ MacEngComp 24

- Built a data security system combining **facial recognition**, **password management**, and **file encryption**
- Achieved **sub-2ms response time and secured 2nd place among 30+ teams in a 7-hour coding sprint**

Vehicle Telemetry Dashboard | Python, Plotly Dash

- Built a **real-time telemetry dashboard** for Baja racing vehicles using **Python** and **Plotly Dash**
- Developed pipelines on **Linux**, reducing **feedback latency by 40%** and improving **system reliability by 10%**

Shortest Path Algorithms Project [Github] | Python, Matplotlib, UML, OOP

- Implemented & benchmarked various **shortest paths algorithms** on London Subway graphs to **optimize runtime**
- Designed experiments and built a **UML-based adapter** enabling flexible, **object-oriented integration** of pathfinding algorithms.

MoodFlix Movie Recommendation App [Demo] | Django, JavaScript

- Created a **full-stack web app** recommending movies based on user mood and language
- Designed backend APIs and database integration for dynamic user interactions.

Technical Skills

Languages: Python, Java, C, SQL (MySQL, PostgreSQL), TypeScript, JavaScript, HTML5/CSS3, SCSS, Tailwind CSS

Frameworks/Libraries: React.js, Next.js, Node.js, Django, FastAPI, JUnit, OpenCV, TensorFlow, scikit-learn

Data & Analytics: ETL, Data Pipelines, Pandas, NumPy, Matplotlib, Plotly Dash, Tableau, Power BI, Excel

Tools: Git, GitHub, Figma, AWS, Firebase, Vercel, Heroku, REST APIs, Unit/Integration Testing