Nathan Cook

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Objective

As a current computer engineering student, I am seeking an opportunity to apply and enhance my technical and teamwork skills in a dynamic professional environment.

Education

Bachelor of Applied Science **September 2022 – April 2026**

Queen's University, Kingston, Ontario

3rd Year Computer Engineering Student

Experience

Traffic Control Data Analyst Assistant **May 2024 – August 2024**

City of Ottawa Traffic Operations, Ottawa, Ontario

Perform traffic and pedestrian studies, assess intersection dimensions, update clearance drawings, and calculate recommended traffic signal timings.

Golf Course Back-shop Attendant **April 2022 – September 2023**

Hylands Golf Club, Ottawa, Ontario

Coordinate the preparation of golf carts, manage golf club storage and cleaning, and ensure the driving range is properly stocked for 1,500 members.

Projects

Website Development – Profile Website **December 2024 – January 2025**

- Created a multi-page website using HTML.
- Styled the website with CSS, adding a stylistic appearance and animations.
- Implemented features such as flexbox, transitions, and object-fit for layout and responsiveness.

SQL Data Science Project – Walking vs. Jumping Data Analysis **January 2024 – April 2024**

- Loaded and concatenated CSV files for each team member's dataset.
- Applied preprocessing techniques of a moving average, outlier removal and normalization.
- Extracted statistical features and split data training and test sets for logistic regression.
- Evaluated model performance using AUC score, ROC curve and Confusion matrix.

Software Coding Project – Recreate MS Excel **October 2023 – December 2023**

- Created an Excel-like program in C, incorporating advanced algorithms and data structures.
- Program allows for cell addition and manages linked dependencies between cells.
- Managed memory efficiently with dynamic allocation for scalable data structures.

Skills

Software Development

- Programming experience in C, Python, Java, NIOS II, SQL, HTML and CSS.
- Experience in Git, GitHub, and Linux systems.

Electrical Circuits

- Experience in circuit design, analysis, and semi-conductor and diode behaviour.