

CARLOS CARANDANG

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EDUCATION

Toronto Metropolitan University (Formerly Ryerson)

Toronto, ON

Computer Science Co-Op, BSc (Honours)

Sept 2021 - May 2026 (Expected)

Activities: Intramural Sports Team Captain Sept 2021 - Present

EXPERIENCE

E-Commerce Advisor

Sept 2023 - Dec 2023

Ontario Chamber of Commerce

Toronto, ON

- Responded to **10+ inquiries daily** related to the Canada Digital Adoption Program, offering guidance to businesses.
- Supported **50+ small businesses** throughout the grant application process, ensuring accuracy and completeness of applications, and tracked outcomes to measure program impact.
- Organized and cleaned **Excel** sheets by removing irrelevant data and cross-referencing current information to ensure accuracy, demonstrating strong attention to detail and improving overall data reliability.

PROJECTS

Toronto House Listings Analysis | Data Analyst Project

- **Web scraped** over **100 house listings** in Toronto from the REMAX website using **Beautiful Soup**.
- **Organized, cleaned, and stored data** acquired into a CSV file using the **Pandas library**.
- Utilized **Matplotlib**, **NumPy**, and the **Google Maps API** to identify trends and create insightful visualizations.

Spotify Wrapped Analysis | Data Analyst Project

- Created an interactive Spotify Wrapped visualization for 2024, utilizing **Power BI** to analyze listening patterns.
- Developed **heatmaps** and **interactive slicers** to allow users to filter and explore listening data based on time.
- Used **DAX** to calculate metrics and transform raw data, creating calculated fields for time-based analysis.

South East Collective | Database Design and Management Project

- Collaborated with a group of 3 to design a **relational database** for a simulated clothing store.
- Utilized **Oracle 11g** and **SQL** to create queries, manage data insertion, and optimize database functionality.
- Built a **PHP** based **GUI** that enabled users to perform actions such as creating, deleting, and querying tables.

SoundCheck | Backend Developer

- Collaborated with a team of 5 to design and develop an online ticketing system using **HTML**, **CSS**, **Python**, and **SQL**.
- **Led development for databases**, managing user logins, events, shopping carts associated with users, and event information, including ticket prices and quantities using **SQLite**.
- Utilized **SDLC** methodology, incorporating **UML diagrams** and the **spiral model**, to ensure efficient execution.

Food Calorie Calculator | Fullstack Development Project

- Designed a dynamic website using **HTML** and **CSS** to create a user-friendly interface for a food calorie calculator.
- Utilized **Python** along with the **Flask framework** to integrate an **API** with a vast database of approximately **900,000** food items, allowing users to request and retrieve nutritional information.
- Employed efficient data extraction techniques to extract relevant calorie information from the API's extensive database, ensuring reliable and precise results for various food items.

E-commerce System Simulator | Backend Development Project

- Developed an e-commerce system using **Java**, focused on **object-oriented** principles and exception handling.
- Created **database** functionalities for customer cart management, order processing, and shipping operations.

TECHNICAL SKILLS

Languages | Python, SQL, Java, HTML, CSS, Javascript, PHP, Bash, C, Elixir

Libraries/Frameworks | Pandas, Matplotlib, NumPy, Beautiful Soup, SQLite, Flask, pytest, MongoDB, Bootstrap

Technical Tools and OS | Microsoft 365 (Excel, Word, Outlook), Git, PowerBI, VIM Editor, Windows, Linux/Unix