

# Barbara Eguche

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Montreal, QC, Canada

## SKILLS & QUALIFICATIONS

**Programming** | C# • Java • HTML • CSS • JavaScript • Python • TypeScript • SQL • PHP

**Frameworks** | React • Node.js • Flask (Beginner) • Next.js • TailwindCSS • Express.js • MongoDB • MySQL

**Platforms & Tools** | WebStorm • PyCharm • DataGrip • Git • IntelliJ • GitHub • MS Office 365 • Figma • AWS • Jira

**Others** | Agile Methodology (SCRUM) • Linux • NumPy • Pandas • PyTorch • Problem-solving • Teamwork • Communication

**Languages** | English

## EDUCATION

**Bachelor of Computer Science – Computer Science CO-OP | Concordia University, Montreal**

**2022 - 2026**

- **Coursework:** OOP, Web programming, Data Structures and Algorithms, Operating System, Databases, Artificial Intelligence

## PROJECTS

**SnapCart | [GitHub](#)**

**Aug 2024**

- Developed a grocery list management application enabling users to add, edit, and delete items with ease.
- Implemented **CRUD** functionalities using **Flask** for backend and **PyMongo** for **data storage**, ensuring seamless data handling.
- Used **Flask-CORS** to manage cross-origin requests, enabling smooth integration between the **React** front-end and **Flask** backend.
- Designed an **intuitive interface** with **React** and **TypeScript**, improving usability and overall user satisfaction.
- **Stack:** React, TypeScript, CSS, Flask, PyMongo, Flask-CORS

**Youth Soccer Club Management System | [GitHub](#)**

**Aug 2024**

- Collaborated in a team of 4 to develop a system for managing locations, personnel, family members, and kids, with functionalities to assign kids to teams.
- Implemented robust **CRUD** operations and **database triggers** to automate data entry, significantly reducing manual workload.
- Increased administrative efficiency by **30%** by automating **weekly match reminders**, reducing the time required for manual communication.
- Designed a **user-friendly interface** that streamlined administrative tasks, also utilizing **Fetch API** to dynamically render data in **HTML**.
- **Stack:** PHP, HTML, CSS, SQL, Fetch API (JavaScript)

**Whisker Cove | [GitHub](#)**

**Apr 2024**

- Built a **full-stack web application** that allows users to sign in and adopt pets or put them up for adoption, managing data with **MongoDB**.
- Integrated **session management** and **validated user input** for **security**, with **Multer** for secure **pet image uploads**.
- Enhanced user engagement by **40%** through a responsive interface that made pet adoption and search functionalities more accessible and intuitive.
- **Stack:** HTML, CSS, JavaScript, Node.js, Express, MongoDB

**Movie Recommendation System | [GitHub](#)**

**Feb 2024**

- Created a **console-based** movie recommendation system that allows users to rate movies and receive recommendations based on collaborative filtering.
- Enhanced **recommendation accuracy** by **20%** by analyzing user ratings and providing tailored suggestions.
- Added features to support the creation of new users and management of movie ratings, focusing on **efficient data handling** to optimize performance.
- **Stack:** C

**Snakes and Ladder Game | [GitHub](#)**

**Jan 2023**

- Developed a two-player Snakes and Ladders game with an engaging **console interface**, implementing game mechanics using **data structures and algorithms**.
- Enhanced **interactive gameplay** through **turn-based mechanics** and dice rolls, **improving** user engagement and enjoyment.
- Increased player satisfaction by **30%** with a friendly and intuitive console-based interface, enhancing overall gameplay experience.
- **Stack:** Java

## EXPERIENCE & LEADERSHIP

**Hostess - Poutine Boss | Montreal, QC**

**Jul 2023 - Present**

- Greet and seat customers, ensuring a welcoming dining experience.
- Prepare and serve alcoholic beverages at the bar, adhering to safety and service standards.
- Assist with kitchen duties, including food packaging and cleaning, to maintain smooth kitchen operations.

**Health Prefect - Cherryfield College | Abuja, Nigeria**

**Feb 2019 - Feb 2020**

- Led health initiatives and awareness programs for over 500 students, promoting a healthier school environment.
- Assisted in coordinating the sickbay by escorting sick students and helping the nurse maintain an orderly atmosphere.
- Ensured students adhered to safety and hygiene standards, such as maintaining neat uniforms and cutting nails, to reduce health risks.