

ALEXANDER PEROCHO

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Education

University of Western Ontario

Specialization in Computer Science—Software Engineering

Sept. 2023 – Exp. April 2025

London, Ontario

Sheridan College

Mobile Computing

Sept. 2022 – April 2023

Oakville, Ontario

Relevant Coursework

- Data Structures & Algorithms
- Database Management
- Computer Organization & Architecture
- Mobile Computing
- Network Foundations
- Interactive Application Development

Experience

Longbranch Neighbourhood Association

Junior Fullstack Developer Intern

June 2020 – Sept 2020

Toronto, Ontario

- Interned as a junior full-stack developer, assisting in the development of a private application available to over **11,000** users.
- Overlooked front-end development and application interactivity through the development unit tests, resulting in a **23%** decrease in time spent on searching for and fixing interactivity bugs.

City of Mississauga

Lifeguard & Swim Instructor

June 2018 – Sept 2019

Mississauga, Ontario

- Trained to monitor bodies of water, encouraging and ensuring water safe behaviour over high-stress situations.
- Carried out lesson plans for up to **10** clients at a time to develop skills surrounding bodies of water.

Personal Projects

DFS Maze | *Java, Git*

Nov 2023

- Developed a Maze-Game employing a **DFS** algorithm on a file-parsed maze, implemented via a directed and weighted graph in order to efficiently produce a solution for mazes with up to **500+** nodes.

Pay Roll App | *C#, .NET, Git*

February 2023

- Developed a mobile application to manage and automate a payroll system between **5** diversified employee categories utilizing advanced object-oriented programming principles.

Fitness Center Database | *Azure SQL, Visual Paradigm, Figma*

October 2022

- Leveraged SQL, Visual Paradigm, and Figma to design a comprehensive wire-frame and model a scalable database, effectively managing information systems for a hypothetical fitness center.

Personal Website | *HTML/CSS, JavaScript, Git*

December 2021

- Developed a website from vanilla HTML/CSS, and JavaScript for use as an e-portfolio for my computer science endeavours.

Algorithm Visualizer | *HTML/CSS, JavaScript, Python, Git*

December 2021

- Developed a web application that visualizes various sorting algorithms, highlighting their distinct **time complexities** and operational mechanics.

Chess | *HTML/CSS, JavaScript, Java, Git*

November 2021

- Developed a chess web application using advanced object-oriented programming principles, structured under a **MVC** design pattern, effectively implementing both the GUI and logic.

Data Comperssion Program | *Python, Git*

October 2020

- Implemented a quad-tree data structure that: parses, compresses, and decompresses bitmap images over varying loss-levels and compression ratios of up to **33%**.

Technical Skills

Languages: Python, Java, C, C++, C#, SQL, HTML/CSS, JavaScript

Technologies/Frameworks: Git, .NET (MAUI), Flutter, JQuery, Bootstrap, Unix

Extracurricular

Athletic: Badminton Club, Climbing Club, Western Skii & Snowboard, Golf, Hiking, Swimming, Camping

Social/Academic: Western AI, Western Organization of Filipinos, Hip Hop Western