

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
- Introduction to Software Engineering
- Interactive Application Development

Experience

Longbranch Neighbourhood Association.

May 2020 – Aug 2020

Junior Full-stack Developer Intern — Flutter (iOS & Android).

Toronto, Ontario

- Interned as a junior full-stack developer, working in a small team through the development of a private trail-route application available to over **11,000** users.
- Overlooked front-end development and application interactivity through the development tests, resulting in a **23%** decrease in time spent on searching for and fixing interactivity bugs.
- Wire-framed, designed, and implemented mobile-application UI/UX for multiple pages, ensuring code efficiency through the use of reusable elements.
- Implemented Google Maps Platform API's to visualize trail routes.

Soderholm Maritime Services.

March 2022 – Sept 2023

Open-Water Maritime Operations.

Toronto, Ontario

- Worked as a tug-boat and open-hull work boat operator, responsible for safely and effectively transporting divers & workers; tools & equipment; large material-scows & dive-barges at maximum capacity.
- Trained in supervision of divers on-bottom through the maintenance of oxygen supplies, radio communications, and diver tool/equipment needs.
- Certified in workplace safety through **OHSA** and **WHIMIS** training.

Personal Projects

Pay Roll Automation App | C#, .NET MAUI, Figma, Git

February 2023

- Wire-framed the UI/UX for a mobile application to manage and automate a payroll system between **5** diversified employee categories, implementing functionality utilizing advanced object-oriented programming principles over an MVVM design pattern.

Fitness Center Database | Azure SQL, Visual Paradigm, Figma

October 2022

- Leveraged SQL, Visual Paradigm, and Figma to wire-frame the UX/UI for a mobile front-end as well as model and normalize a comprehensive database in order to manage information systems for a hypothetical fitness center.

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

December 2021

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

Chess | HTML/CSS, JavaScript, JQuery, 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.

Bitmap Data Compressor | 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 (Azure), HTML/CSS, JavaScript

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

Extracurricular

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

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