

Perocho Alexander

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Education

University of Western Ontario

Honours Specialization in Computer Science – Software Engineering

Expected May 2025

London, Ontario

Sheridan College

Mobile Computing

Sept 2022 – Apr 2023

Oakville, ON

- **Coursework:** Network Foundations, Interactive Application Development (Visual Studio, .NET 7 MAUI, C#), Database Modelling (Azure MySQL, Visual Paradigm), Mobile Computing (Swift, XCode, Android Studio, Java)

Experience

Full-stack Software Developer Intern

Long Branch Neighbourhood Association – Flutter, Firebase, AGILE, git

May 2020 – Aug 2020

Toronto, Ontario

- Partook in the development life-cycle of a trail route application.
- Collaborated with senior SWE & mentor.
- Implemented Google Maps **RESTful** API.
- Leveraged **Firebase** for user-account management.
- Wire-framed, designed, and implemented **mobile & responsive UI/UX** for application pages.
- Engaged in an **AGILE (SCRUM)** development environment.
- Debugged code and developed unit tests.

Projects

Lite Code | Java, Spring, Confluence, BitBucket, Jira, AGILE (SCRUM)

Feb 2024 – Present

- Developing an educational app that visualizes the **code-structure** and the **execution-stack** of a computer-program.
- Collaborating in an **AGILE** team of 5, acting as the **Product Owner**, a **Developer**, and lead **Software Engineer**.
- **Objectifying** java instructions to develop a syntax-free, **GUI-based programming language** through **advanced OOP**.
- Engineering a high-level **compiler** to compile GUI code into java code.
- Implementing an **MVC** or **MVVM** design-pattern for interactivity.
- Outlining project specifications; modelling **business, design, testing**, and **functional/non-functional** requirements; modelling **use-case, activity**, and **class diagrams**; wire-framing **UI/UX**, creating a **working-team agreement**, **user-stories**, and **acceptance criteria**'.

Payroll Automation | Visual Studio, .NET MAUI, C#, Figma, git

Feb 2023

- Developed a mobile application that **manages** and **automates** a payroll between 5 employee categories.
- Wire-framed the **UI/UX** and implemented interactivity under an **MVVM** design pattern.
- Employed advanced **OOP** to distinguish employee categories.

Fitness Center Database Management System | MySQL (Azure), Figma, Visual Paradigm

Oct 2022

- Wire-framed a mobile and responsive front-end for a hypothetical fitness-center app.
- Structured an **MVC** design pattern for front-back end interactivity.
- Modelled and **normalized** an **Azure SQL** database with **Visual Paradigm UML Diagrams**.
- Managed information systems including: a User-Account system, Facility/Room Scheduling with conflict resolution, and a Facility-Program system.

Bitmap Data Compressor | Python, git

Oct 2020

- Created a python program that parses, compresses, and decompresses bitmap images over varying loss levels.
- Implemented a quad-tree data structure to parse BMP's, resulting in compression rates of up to **33%**.

Technical Skills

Languages: Python, Java, C, C++, C#, HTML, CSS, JavaScript, TypeScript, MySQL, Unix, Dart, Swift, LaTeX

Technologies: Git, Confluence, BitBucket, Jira, Figma, Visual Paradigm, React.js, Spring, Pandas, Flutter, jQuery, Bootstrap, Visual Studio, .NET MAUI, Azure SQL, Android Studio, XCode

Extra Curricular

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

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