

# Alexander Perocho

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🌐 [perocho-xela](https://perocho-xela.github.io)

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## Technical Skills

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**Languages:** HTML5, SASS, CSS3, TypeScript, JavaScript, C, C++, C#, Python, Java, MySQL, Unix, Dart, Swift

**Frameworks:** ReactJS, NextJS, JQuery, REST, AGILE, .NET MAUI

**Dev Tools:** VSCode, Visual Studio, Git, Confluence, Bitbucket, Jira, ESLint, StyleLint, Prettier

**Technologies:** Figma, Visual Paradigm, Azure SQL, Android Studio, XCode

**Design Patterns:** MVC, MVVM

## Experience

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### Long Branch Neighbourhood Association

May 2020 – Aug 2020

Full-Stack Application Developer Mentorship – [TreeTrek](#)

Toronto, Ontario

- Acted as a Protégé in the development life cycle of a [mobile application](#) and collaborated with a senior Software Engineer/mentor, developing an understanding of the full-stack development process.
- Implemented Google Maps **RESTful** API to display trail routes that were physically mapped out on foot.
- Wire-framed, designed, and implemented **mobile & responsive UI/UX** for application pages and widgets.
- Engaged in an **AGILE (SCRUM)** development environment.
- Debugged code and developed **UX** tests.

## Personal Projects

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[Perocho-OS](#) – inspired by [Dustin Brett](#) | *React/NextJS, TypeScript, CSS-in-JS, git*

Apr 2024 – Present

- Developing a personal website that will emulate an Apple Operating System – inspired by [Dustin Brett's website](#).
- Leveraging **NextJS** with **Typescript** and **CSS-in-JS (Styled Components)**.
- Implementing **ESLint, StyleLint, Prettier, Husky/Lint-Staged, Jest, and GitHub Actions (CI)** to enforce and a streamlined development process under best-practices.
- Integrating **SSR** for UI components to boost performance.
- Utilizing **npm** to manage dependencies and keep the project up to date.
- Maintaining an over-all **Google Lighthouse Performance Analysis** of over **94%** including a **100%** score in **SEO, Best Practice, and Accessibility**.

[LiteCode](#) | *Java, Swing, Confluence, BitBucket, Jira, AGILE (SCRUM)*

Feb 2024 – Apr 2024

- Developed an **educational app** that visualizes the **code-structure** and **execution-stack** of computer programs.
- Collaborated with an **AGILE** team of 5 acting as the **Product Owner** and **Lead Fullstack Engineer**.
- Developed a syntax-free, **GUI-based programming language** based off of **JAVA** through **advanced OOP**.
- Implemented an **MVC** design-pattern for front-to-back-end interactivity.
- Outlined project specifications; modelled **business, design, testing, functional/non-functional** requirements; developed **use-case, activity, and class diagrams**; wire-framed **UI/UX**; created a **working-team agreement, user-stories, and acceptance criteria**'.

## Hackathon Projects

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**UofT DeerHacks IV** – [TerraTalk](#) | *React.js, Typescript, OpenAI, Open Street Map (Overpass), git*

Feb 2024 – Feb 2024

- A program that leverages **OpenAI's NLP API** to parse user input into **Overpass Turbo** queries that locate and display **geo-referenced objects** through **Open Street Maps**.

## Education

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**University of Western Ontario**

Sept 2023 – Expected May 2025

*Honours Specialization in Computer Science – Software Engineering*

London, Ontario

## Extra Curricular

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**Athletic:** Western Badminton Club, Climbing Club, Western Skii & Snowboard, Swimming, XC Mountain Biking, Tri-Athelon, Golf.

**Social/Academic:** Western AI, Hip Hop Western, WOOF, CSA

**Hobbies:** Guitar, Video/Photography, Dancing, Cooking, Hiking, Camping.