

Jacob Im

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SKILLS

Languages	JavaScript, Java, HTML/CSS, TypeScript, C, Racket, SQL
Tools/Frameworks	React, Node.js, Express, MongoDB, Mongoose, WordPress, Socket.io, Jest, Heroku, Git
Additional	JS ES6, REST APIs, Android Studio, OOP, Bilingual (French)

EXPERIENCE



Web Developer | The Mathematics Society of UW | *Waterloo, ON* *January 2022 - Present*

- Collaborated with a **team of 4** to maintain and update the **WordPress** website for the Mathematics Society.
- Created an automatic mailing system for locker assignment using **Apps Script** and **Sendgrid** integrated with Sheets.
- Designed and developed **2** user-friendly pages with **HTML**, focusing on information accessibility.
- Dynamically generated content from WordPress' integrated database management system using **SQL** queries.


Vice President | LPCI Business Council | *Toronto, ON* *June 2020 - June 2021*

- Spearheaded 5 virtual events for **100+** students, **adapting** to the sudden changes caused by the pandemic.
- **Organized** council meetings for our team of 13 members and represented the voice of the student body.
- Addressed student concerns with school management, developing **professional communication** skills.


PROJECTS

DateNest | *React Native, Node.js, Express, MongoDB, Heroku, Android Studio*  

- Launched an **Android** app on the **Google Play** store where users can log their dates with images and relevant info.
- Created a **RESTful** backend server with API endpoints that allow users to perform all the **CRUD** operations.
- Stored data in **MongoDB** database using **mongoose** Schemas, and enabled **HTTP requests** with the **Fetch API**.
- Collaborated with partner to build a dynamic frontend UI, focusing on convenience, simplicity and elegance.
- Tested app with the **Android Studio** emulator before deploying on **Heroku**.

Good Night Out | *React.js, CSS, Node.js, Express, TypeScript* 

- Co-built **full-stack** web app that helps students create events for their friends and plan events with the public.
- Implemented a nav bar, forms and multiple pages, using **React** Hooks to improve UX, and **CSS** for styling.
- Built a well-tested backend with partner using **Node.js** and **Express**, honing asynchronous programming skills.

Meeting Agenda App | *React.js, Node.js, Express, CSS, Socket.io* 

- Developed **React** app that acts as a platform for users to host meetings through an interactive agenda.
- Integrated real-time communication between meeting members and live updates to the itinerary using **Socket.io**.
- Designed a login page, an editable topic list, and a dynamic member list using **CSS** selectors and **React Hooks**.

Tic Tac Toe | *Java, JavaScript, React.js, CSS* | V2:   , V1: 

- **Version 2:** **React** app that provides single player mode, where users can play against a smart **JavaScript** bot that uses a **minimax algorithm**, and multiplayer mode, where users can play against friends.
- **Version 1:** Console game built with **Java** that uses **OOP** for its Board, Game, and Computer bot classes.

Chat App | *Vanilla JS, Node.js, Express, Socket.io, HTML, Mustache* 

- Leveraged **Socket.io** to build a chat app where users can enter specific rooms and chat with friends in **real-time**.
- Enabled location sharing with the **Geolocation API**, allowing users to share their location with their room.
- Designed a login and chat page, creating message templates with **Mustache** for a clean and consistent look.

EDUCATION

University of Waterloo | Candidate for Bachelor of Computer Science *September 2021 - April 2026 (expected)*

- GPA: **3.94/4.0** (92%)

ABOUT ME

Awards	Schulich Leader Nominee for the top entrepreneurial-minded, STEM student in my class (2021)
Interests	Hockey Analytics, Chess, Football, SpikeBall, Hockey, Basketball