

Brett Yang

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EDUCATION

University of Toronto

B.A.Sc in Computer Engineering

Sept. 2021 – April 2026

Toronto, ON

- Cumulative GPA: 3.30/4.0

John Fraser Secondary School

Advanced Placement Program

Sept. 2017 – June 2021

Mississauga, ON

- GPA: 4.0/4.0

SKILLS

Languages : JavaScript, HTML/CSS, Python, Java

Frameworks/Libraries : React, Express, Node.js, Mongoose, Bootstrap

Databases : MongoDB, NOSQL, SQL

PROJECTS

Marketplace Application ([link](#)) | React, Node.js, MongoDB (Mongoose), Express, Bootstrap

- Created a **full stack MERN** marketplace application where users can create, edit and delete posts containing information about their product
- Implemented a secure login system through the use of the **bcrypt hashing algorithm** and 10 rounds of salting to safely store passwords
- Marketplace items and user credentials were stored on a **cloud database** through MongoDB Atlas

BookMarker ([link](#)) | React, Node.js, MongoDB (Mongoose), Express, React-Map-gl

- Created a **full stack MERN** using the react-map-gl library that allows users to bookmark and add info about places of interest
- **Dynamically** loads a user's points of interests from the **MongoDB backend**
- Selecting a marker shows further information about a created point of interest

Mailing List ([link](#)) | Node, Express, HTML/CSS, Bootstrap

- Created an application which allows a user to add themselves to a mailing list
- Emails are added to the mailing list via the **MailChimp API**

EXPERIENCE

FIRST Robotics Competition Team 1360

Sept. 2018 – June. 2020

Builder and Scouter

Oakville, ON

- Used machine-shop tools including lathes and mills to create robot components that were implemented in drive-trains and lift mechanisms
- Analyzed and interpreted computer-aided designs (CAD) to build accurate components following all specifications and dimensions
- Taught and assisted other members on how to safely use machine tools such as lathes and mills

Canada Chess Youth Club

July. 2018 – Aug. 2018

Assistant Chess Coach

Mississauga, ON

- Taught children between the ages of 5-12 on aspects of chess including strategy, tactics and endgame technique
- Helped to organize and adjudicate chess tournaments between the children in the class