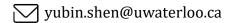
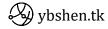
# **BENSON SHEN**

1B Computer Engineering







## **Skills**

Languages: Python, JavaScript, Java, PHP, C++, HTML, CSS

Tools and Libraries: Git, Jira, Node.js, Express, React, MongoDB, MySQL, Tailwind CSS, xampp

# **Projects**

#### **MinuteType** - A typing speed test web app

MongoDB, Express, React, Node.js

- Developed a RESTful API to enable HTTP communications between the frontend and the backend
- Implemented a secure authentication system to verify users with http cookies and hash passwords using bcrypt encryption
- Established a database system to store user and typing test data using MongoDB Atlas

### Carey's Computers - An eCommerce website

HTML, CSS, PHP, MySQL, JavaScript

- Dynamically generated product pages with PHP to display information from the database
- Developed a search function using GET and POST methods with PHP that allows users to efficiently find the products they are interested in
- Designed a responsive and user-friendly interface using CSS and JavaScript

### SignMyYearbook - A yearbook-signing website

HTML, CSS, PHP, MySQL

- Implemented a system that allows users to view their own virtual yearbook and write in others' virtual yearbooks using PHP and MySQL
- Created a straight-forward and responsive interface using CSS

## Connect-4 AI – An AI that plays Connect-4

Python, PyGame

- Developed an AI using the Minimax algorithm that plays Connect-4 against the user
- Optimized efficiency by up to 70% through the implementation of alpha-beta pruning

# **Experiences**

## Junior Developer – ePleyer Inc.

January 2021 – April 2021

- Created professional and elegant designs for the company's websites
- Constructed responsive and robust web pages with HTML, JavaScript, and Tailwind CSS
- Collaborated on a team of 3 using Jira, Git, and GitHub to establish an efficient workflow

#### Swim Instructor - Shendy's Swim Centre

October 2018 - May 2019

- Organized classes for swimmers by planning activities in advance to maximize class time
- Actively engaged with the swimmers to create a fun and enjoyable classes environment
- Demonstrated leadership by instructing classes of up to eight swimmers

## Education

## **University of Waterloo**

Sept 2020 - April 2025 (Expected)

Candidate for B.A.Sc in Computer Engineering