




# BENSON SHEN

1B Computer Engineering

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 github.com/shenbenson

 ybshen.tk

## Skills

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

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

## Projects

**MinuteType – A typing speed test web app** MongoDB, Express.js, React.js, Node.js

- Developed a RESTful API to enable HTTP communications between the frontend and the backend
- Implemented a secure authentication system to verify users and hash passwords with 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 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