BENSON SHEN

1B Computer Engineering

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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