




BENSON SHEN

2B Computer Engineering

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Skills

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

Tools & Libraries: Git, Jira, Node.js, Express, React, Jest, MongoDB, MySQL, Tailwind CSS

Experiences

Software Engineer – Bluescape

May 2022 – August 2022

- Developed the raise hand feature for Bluescape Meet using **React** and the **Amazon Chime SDK**
- Implemented efficient participant tile sorting and auto lower hand functionalities using **TypeScript**
- Created frontend and backend unit tests for Bluescape Meet using **Jest** and **Sinon**
- Integrated real-time updating functionality using **GraphQL** with **TypeScript** to effectively detect users leaving the Bluescape Meet waiting room

Automation Engineer – Bluescape

September 2021 – December 2021

- Monitored and maintained **CodeceptJS** tests for the web client with **TestRail** and **GitHub Actions**
- Created **K6 performance tests** to assess the limits of Bluescape workspaces using **WebSocket**
- Collaborated effectively with team members using **Jira**, **TestRail**, **Git**, and **GitHub**

Junior Developer – ePleyer

January 2021 – April 2021

- Created professional and elegant designs for the company's website using **Duda**
- Constructed dynamic and robust webpages using **HTML**, **JavaScript**, and **Twig**
- Optimized webpages for cross-platform usability using **Tailwind CSS**

Projects

ListBuddy – A personal grocery list 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 validate users using HTTP cookies and JWT with **bcrypt encryption**
- Established a database system to store user and grocery lists using **MongoDB Atlas**

Carey's Computers – A mock eCommerce website

HTML, CSS, PHP, MySQL, JavaScript

- Dynamically generated product pages with **PHP** to display information from a **MySQL** 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 an attractive and robust user interface using **CSS** and **JavaScript**

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

Python, PyGame

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

Education

University of Waterloo

Sept 2020 – April 2025 (Expected)

Candidate for B.A.Sc. in Computer Engineering

Relevant courses: Algorithms & Data Structures, Systems Programming & Concurrency