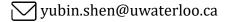
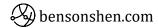
# **BENSON SHEN**

2B Computer Engineering







### **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