

Clifton Tan

Vancouver, British Columbia, Canada

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Technical Skills:

Languages

- C/C++
- Python
- JavaScript
- TypeScript
- HTML & CSS
- React

Applications

- Visual Studio Code
- Xcode
- GitHub
- Microsoft Office
- MATLAB

Operating Systems

- Windows
- Linux Ubuntu
- Mac OS

Academic Projects:

Balloon Drop Web Game

Sep - Dec 2024

Web I - Client-side Development

- Implemented gameplay mechanics using HTML, CSS, and JavaScript, allowing balloons to fall from random positions and the player to shoot them with a cannon, resulting in smooth and engaging gameplay.
- Created scoring and lives systems, where players earn points for hitting balloons and lose lives if a balloon reaches the bottom. This provided immediate feedback, enhancing the players' experience.
- Ensured responsiveness by adapting the balloon's behavior and the game layout to different screen sizes. Used JavaScript to dynamically adjust the game elements, making the game playable on various devices without issues and ensuring a consistent experience for all users.
- Built game-over logic that displays a "Game Over" message when the player runs out of lives. Incorporated visual and audio cues to clearly signal the end of the game, providing a satisfying and conclusive end to the game and improving user satisfaction.

Web Based Emergency Reporting System

Sep - Dec 2024

Web I - Client-side Development

- Collaborated in a team of five to design and develop a web-based emergency reporting system for E-Comm using HTML, CSS, JavaScript, and Leaflet API, enabling users to report and track emergencies in real time.
- Integrated interactive map features with Leaflet API and OpenStreetMaps to display emergency reports as markers, allowing users to filter, sort, and view incident details based on location and status.
- Implemented secure passcode-based report management, utilizing MD5 hash for password storage and the DOM Storage API for persistent data storage, ensuring safe and reliable system access for authorized users.

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Personal Projects:

Personal Website

Apr 2022 - Present

- Learned HTML, CSS and JavaScript from creating a personal website
- Contains one page with a navigational bar and contains an about me, projects and contact info
- Designed a responsive layout ensuring compatibility across various devices and screen sizes, utilizing Bootstrap's grid system and components.

Amazon Web Scraper

Jan 2023

- Developed a Python-based web scraper using Selenium and BeautifulSoup to extract product details such as name, price, rating, and review count directly from Amazon.
- Automated data processing and export by saving the extracted information into structured CSV and Excel files, leveraging the pandas library.
- Optimized for scalability by enabling multi-page scraping and implementing dynamic URL generation, allowing the scraper to gather extensive product data across multiple pages.

Work Experience:

Lifeguard

Sept 2021 - Present

City of Vancouver, Vancouver, BC

- Maintained a constant and vigilant watch over swimmers and pool facilities to ensure the safety and well-being of all patrons.
- Trained in CPR, AED, and emergency response procedures, and performs these procedures as necessary.
- Provided exceptional customer service by assisting patrons with pool rules and ensuring a positive, safe experience, while de-escalating potential safety concerns.

Sailing Instructor

July 2022 - Present

Cadets Canada, Vancouver/Comox, BC

- Conducted comprehensive training sessions for beginner and intermediate sailors, teaching the fundamentals of sailing, including sail handling, boat control, and safety procedures.
- Supervised and monitored students while on the water, ensuring their safety and the safety of others.
- Acted as a mentor and role model for students, fostering their love and appreciation for sailing and encouraging them to pursue it as a lifelong hobby.

Education:

BSc. Computing Science

Sept 2022 - Present

- Simon Fraser University, Burnaby BC