Clifton Tan

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EDUCATION

Simon Fraser University   Vancouver, BC
Bachelor of Science in Computer Science   *Aug. 2022 – Present*

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++, JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask
Developer Tools: Git, VS Code, Visual Studio, PyCharm

PROJECTS

Ai In Competitive Play | *Godot, GDScript, Python, Reinforcement Learning, A* Search*   Sept 2025 – Dec 2025
- Collaborated in a team to design and develop an adaptive AI combat bot within a custom 2D game built using the Godot engine, simulating competitive gameplay scenarios
- Implemented A* search for real-time pathfinding, enabling the agent to navigate map intersections efficiently and dynamically reach objectives
- Developed a reinforcement learning–based combat system that allows the agent to switch into a fight mode, learning how to strafe, aim, and minimize damage when engaging nearby enemies
- Built an internal data pipeline that logs agent and enemy positions, movement vectors, collisions, bullet trajectories, and combat outcomes to support continuous learning without external datasets

SquadUp | *React, HTML, CSS, Ticketmaster API, Gemini API*   Jan 2024 – April 2024
- Collaborated in a team to develop SquadUp, a b-webased AI-powered hangout planner using React, Vite, and modern JavaScript, enabling users to generate personalized group activity suggestions based on preferences and location
- Integrated Google's Gemini AI API and Ticketmaster API to recommend activities and realtime event data, allowing users to discover and filter local events and activities based on their interests and group size
- Implemented secure API key management using environment variables and Vite's configuration system, ensuring sensitive credentials were properly protected while maintaining seamless integration with external services for real-time data access.

Amazon Web Scraper | *Python, BeautifulSoup, Selenium, Pandas*   Jan 2024 – April 2024
- Developed a Python-based Amazon web scraper using Selenium and BeautifulSoup to extract product details such as name, price, rating, and review count directly from Amazon's search results
- 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.

EXPERIENCE

Lifeguard   Sept 2021 – Present
Renfrew Community Center   *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