# **Coleman Lai**

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#### **Skills**

Languages: HTML/CSS/JavaScript, TypeScript, SQL, Python, C, C++, C#, R

Programs/Tools: Visual Studio, VSCode, Git, OpenAI API, MCP, Docker, PyTest, WebSocket, Unity, WordPress

**Libraries/Frameworks:** PostgreSQL, MongoDB, Node.js, React, TailwindCSS, ExpressJS **Other:** Agile, Scrum, DevOps, DSA, CI/CD, Software Development Lifecycle (SDLC)

## **Project Experience**

Hermes | Gradio MCP Hackathon | React, TypeScript, Python, Node, Docker, MCP, PostgreSQL |

Jun 2025

- Programmed a Model Context Protocol-enabled tool that streamlines the process of monitoring APIs by automating asynchronous API calls through dynamic functions, allowing for easy API data recording and performance checking
- Structured dynamic API handling in Python, including parsing of header tokens and complex user parameters
- Linked functions to SQL database operations, ensuring properly handled edge cases and data security

## Spirit of Salmon | C#, Unity | 6

Nov 2024 - Apr 2025

- Developed a 3D game in Unity to educate on the dangers facing BC Salmon, complete with AI NPCs and predators
- Managed the repository, enforcing code reviews and good software development practices for efficient work
- Led weekly meetings to plan sprints and evenly divide tasks, while keeping track of reports via meeting minutes

Project SPHENE (Most Original Hack) | DreamHacks | React, TypeScript, Node, OpenAl, MongoDB | 6 Mar 20

- Created a backend system leveraging AI to analyze notes from peers and intelligently augment the user's own notes by detecting and incorporating missing concept or explanations, thereby improving completeness and clarity
- Structured an AI via OpenAI API that creates formatted suggestions in the users' own personal style for notes
- Utilized MongoDB to securely store and organize user notes, allowing synchronization on the QuillJS text editor

Data Dave | nwHacks | React, TypeScript, Flask, OpenAI | 9

Jan 2025

- Led development of a CSV analysis AI assistant with a React-TypeScript frontend and a Flask-WebSocket backend
- Engineered a context-aware LLM system to prevent AI context loss and hallucinations, ensuring accurate analysis
- Implemented dynamic visualization generation and data analysis using OpenAI API's function calling capability

Be Square (Best Al Hack) | StormHacks | JavaScript, Node, OpenAl, Adobe API | 🔗

Oct 2024

- Created an Adobe Express add-on using JavaScript, integrating OpenAl's API for creative element generation and modification through commands in natural language, enhancing user accessibility and workflow efficiency
- Integrated OpenAI by setting up function calls for natural language processing, connecting via WebSocket
- Worked collaboratively within tight time constraints by using paired programming techniques to accomplish tasks

## **Work Experience**

#### Website Enhancement and Administration | iListen Canada

Jul - Oct 2024

- Upgraded company website built on WordPress, ensuring alignment with company values and increasing appeal
- Constructed a well-documented maintenance document, containing results of a needs analysis of the site
- Injected custom functions and styling using HTML, CSS, JavaScript, and PHP to improve design and functionality

#### Assistant Camp Coordinator | Children's Summer Camp at CCM Canada

Jun – Aug 20

- Led a large group of children in activities including games and crafts through clear, age-appropriate instructions
- Developed and taught structured lessons twice weekly with focused activities and exercises, fostering effective communication through clear, concise explanations and encouraging feedback to gauge comprehension

#### **Education**

## **BSc**, Major in Computing Science

Sep 2023 - Present

Simon Fraser University, Burnaby, Canada | cGPA: 3.98/4.33