Leanna **Resurreccion**

US/Canada Dual Citizen

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Education

The University of British Columbia   Vancouver, B.C., Canada
B.A. in Computer Science — 4.0 / 4.33 GPA   Jun. 2023

Relevant Coursework Discrete Mathematics, Software Construction, Intro. to Computer Systems

Skills

Languages   TypeScript/JavaScript, Python, C, Java, HTML/CSS
Other Technologies   Git, Node.js, React.js, NoSQL, Selenium, Beautiful Soup, Express, Socket.io

Experience

Science AL!VE @ Simon Fraser University | *High School Camp Instructor*   Jul. - Aug. 2018
• Taught fundamental programming concepts through a project-based curriculum to over 90 children (ages 5-12) in Python and Scratch, through use of the BBC Micro:bits embedded systems and Edison robots.
• Facilitated a robotics camp by teaching basic engineering and robotics to a classroom of grade 7 students, using VEX kits and the ROBOTC programming language

Projects

Chat Application | *TypeScript + Node.js, React, MongoDB, Express, Socket.io*

• Developed a full-stack MERN app that facilitates real-time communication between users via configurable, user-created chat rooms.
• Implemented password-locked rooms with randomly generated salts and AES encryption.

Sorting Visualizer | *TypeScript, React*

• Designed and animated a chart-based visualization of mergesort, quicksort, and insertion sort.

Intel 8080 Emulator for Space Invaders | *C, SDL2*

• Implemented the i8080 processor's instruction set in order to run the Space Invaders rom virtually.
• Modelled the emulated CPU state with C structs and used the SDL2 graphics library to emulate video peripherals.

Yanniebot | *Python, Beautiful Soup 4, ffmpeg, Discord API*

• Utilized the Discord API to develop a general use chatbot for personal Discord guilds.
• Streamed YouTube video audio by scraping user-requested YouTube search pages via BS4 and ffmpeg.

Amplify @ cmd-f Hackathon 2020 | *JavaScript, React Native, PostgreSQL, Google Natural Language API*
• Mobile app that analyses and critiques the user's presentation skills using Google's Natural Language API.
• Implemented the front-end in React Native for cross-platform compatibility and fetched data with axios.

Tiger Mom Wolfram Award Winner @ UBC nwHacks 2020 | *JavaScript, Python, React, Tensorflow, Keras*
• Web app that utilizes computer vision to track the user's productivity levels and analyses the resulting data, recommending the user's personal optimal working environment.
• Designed and created React components to visualize real-time data from the Python backend.