

# Jiadi (Tian) Luo

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## EDUCATION

SIMON FRASER UNIVERSITY

SEP 2018 - PRESENT

BSc Computing Science | BSc Health Sciences read in Life Sciences

CGPA: 3.81

Relevant Courses: Data Structures/Algorithm, Operating Systems, Data Networking, AI, Linear Algebra

## WORK EXPERIENCE

WEB DEVELOPER (COOP)

SEP 2022 - PRESENT

7SAGE

VANCOUVER, BC, CANADA

- Developed and maintained a responsive website that has 200,000+ users utilizing essential web development tools such as **JavaScript/React/Vue**, **HTML**, **CSS**, **SASS**, **WordPress**, **MySQL**, **NodeJS**, and **Docker**
- Utilized **OpenAI's GPT-3.5** and **embedding** techniques via its API, along with cloud vector database **PineCone**, to develop intelligent search and recommendation algorithms that helped users find pertinent LSAT lessons
- Established and maintained a live classes feature for subscribed users using the **WordPress** plugin **TEC**, resulting in a 25% increase in monthly active users
- Enhanced user experience and expedited webpage loading times by 10% via optimizing cache transients
- Collaborated with a team of ten developers and trained new team members for efficient onboarding, boosting team productivity and client satisfaction

## PROJECT EXPERIENCE

WEB MANAGEMENT SYSTEM

MAY 2022 - AUG 2022

- Designed a **SQL** database for a simulated strata management company focusing on the data regarding the strata company's properties and management system
- Developed a web application using **XAMPP** backed by **MySQL**, **PHP**, **JavaScript**, and **Bootstrap 5**
- Implemented various data relationships including one-to-one, one-to-many, and many-to-many

DISCORD WEATHER BOT

MAY 2023

- Developed a Discord weather bot using **Python** to respond to user's concurrent weather, anytime, anywhere using **OpenWeatherMap API** and publish via **Discord API**

WEBSITE DESIGN

MAY 2022 - AUG 2022

- Developed a responsive webpage utilizing modern technologies such as **Bootstrap 4/5**, **CSS3**, and **HTML5**, with user login/signup functionality and key features like creating, deleting, liking, rating, and commenting on posts
- Collected data and transfer to the backend utilizing **REST APIs**, **ExpressJS**, and **MongoDB**, including schema design, database associations, and authentication to prevent common security exploits
- Built a full-stack web application from scratch using **NodeJS**, **NPM**, and **Postman** to monitor and test APIs

ARTIFICIAL INTELLIGENCE PROJECTS

SEP 2022 - DEC 2022

- Implemented **A\* searching algorithm** in **Python** to solve the 2x2 Rubik's Cube
- Developed a delivery robot that navigates through four different environments using planning as a **Constraint Satisfaction Problem (CSP)** in **Python**
- Utilized **Genetic algorithm** to colour the map of the US and Canada with four colours (an NP-Complete problem)

## SKILLS

PROGRAMMING LANGUAGE: C/C++, Python, Java, JavaScript, HTML/CSS, SASS, SQL

FRAMEWORK: NodeJS, React, jQuery, Bootstrap

TOOLS: MySQL, TablePlus, XAMPP, MongoDB, Git, Linus, Postman, GitHub, Docker, WordPress, OpenAI