Jai Malhi

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LinkedIn
GitHub

EDUCATION

Software Systems, B.Sc.	Simon Fraser University, Burnaby, BC	Sept. 2021 – Present

- **Minor**: Business Administration
- **Programming Coursework:** Algorithms and Data Structures, OOP Design, Database Systems
- **Other Coursework:** Descriptive and inferential statistics, Chance phenomena and data analysis

SKILLS

Languages: C++, C, Java, JavaScript, HTML/CSS, Python, Git, SQL, YAML
Technologies: NodeJS, Bootstrap, Docker, JSON, Unix, Vitest, Spring Boot, React, Svelte, Angular, JUnit
Developer Tools: VS-Code, Visal Studio, IntelliJ, GitHub, Figma
Project Management: AGILE, SCRUM, CI/CD

EXPERIENCE

Coding Instructor	Zebra Robotics	Aug. 2023 – Present

- Responsible for instructing children ages 6-17 about programming and providing guidance as required
- Teaching HTML/CSS, JavaScript, and Python ranging from beginner to advanced levels
- Assisting in the training of incoming instructors in relation to company software & teaching etiquette

Software Developer Intern	CaminoSoft	Jan. 2022 – Aug. 2022

- Developed Data Science applications in Python using libraries like Pandas and NumPy
- Improved data parser (csv inputs) runtime by ~20% by utilizing the Pandas library's chunking capabilities while maintaining low memory usage
- Assisted in maintaining code style and efficiency of programs by refactoring code
- Designed infrastructure automation process to deploy updates on client machines using Ansible and YAML

SOFTWARE PROJECTS

Lead Developer	Replicake	July 2023

(GitHub Repository)

- A Recipe web application that allows authenticated users to view, create, and find recipe inspiration while also using the Spoonacular API to generate recipes
- Designed and implemented a PostgreSQL database to store user & recipe data that allows users to add, delete, edit, etc. Database accessed using RESTful Spring Boot endpoints with unit tests to ensure correct and consistent functionality
- Devised interface for the frontend using React allowing users comfortably interact login/signup, the API & User created recipes, and view and edit their personal profiles
- Utilized: Java, JUnit, React, Spring Boot, PostgreSQL, Spoonacular API

Developer	Discord Music Bot	May 2023

- Developing a music bot for the social platform Discord allowing any guild member to play, stop, skip, and queue songs alongside other functionalities
- Integrated node.js to launch and maintain bot ensuring continuous uptime
- Added ffmpeg to convert YouTube content into stream-able audio files that can be played through Discord
- Utilized: JavaScript, discord.js, node.js, ffmpeg

Designer/Developer	Dream App	March 2023

- Developed a WebApp that send requests to OpenAI's DALL-E API to generate images based on user input and display them in a neat manner
- Incorporated Vitest to test app functionality and handle any/all potential edge cases and errors
- Utilized: JavaScript, CSS, HTML, DALL-E API, Vitest