

MATTHEW TSENG

SOFTWARE ENGINEER



(236) 777-8991



mjt20@sfu.ca



github.com/mthwtsng



mthwtsng.github.io/Portfolio-Website

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, HTML, CSS, C, C++, Python

Libraries and Tools: Spring Boot, Vue.js, Git, Github, Postman, Bootstrap, PostgreSQL, REST API

EDUCATION

Simon Fraser University (SFU)

Sept 2022 - Present

Bachelors of Science in Computer Science, 3rd year

TECHNICAL PROJECTS

Sports Lounge | Java, Spring Boot, PostgreSQL, JUnit, Vue.js, HTML, CSS | [Github](#)

Jun 2024 - Present

Currently developing a sports forum website, similar to Reddit, that allows user to post and interact with others on topics around sports

- Designed a web application using Java-based framework, Spring Boot, along with HTML, CSS and Vue.js
- Implemented a robust database system using PostgreSQL for storing user and post information, for efficient data retrieval and manipulation
- Integrated Spring Security for user authentication, ensuring secure user registration and login functionality
- Wrote comprehensive unit tests using JUnit to ensure the reliability and robustness of the application

ChildHelp Inventory Management | Java, HTML, CSS, JavaScript, SpringBoot | [Github](#)

Jan - Apr 2024

Developed a full-stack web application for a non-profit company, ChildHelp, to help manage their inventory of donations

- Collaborated in an Agile team to develop a full-stack application using using Java-based framework Spring Boot
- Implemented robust user authentication and session management for secure access to protected resources
- Utilized Chart.js for interactive data visualization to generate dynamic pie charts for real-time updates of inventory quantities
- Integrated dynamic text functionality with JavaScript and CSS to enhance user engagement

Course Planner Web Application | Java, Spring Boot | [Github](#)

Mar- Apr 2024

Designed the logic side of a Course Planner Web Application to help students see required course information

- Designed and developed the back end system for a course planner website, leveraging Spring framework
- Implemented REST API endpoints to support a web-based UI, facilitating seamless interaction with course data
- Performed API tests using Postman, ensuring the reliability and functionality of the endpoints
- Integrated functionality to process and analyze course offering data from a CSV file

Portfolio Website | HTML, CSS, JavaScript, Bootstrap | [Github](#)

Dec 2023 - Mar 2024

Link: <https://mthwtsng.github.io/Portfolio-Website/>

- Developed a dynamic personal website to showcase skills and projects
- Utilized Bootstrap icons and components for streamlined CSS implementation, ensuring a polished appearance
- Integrated dynamic text functionality with JavaScript and CSS to showcase various roles and interests, enhancing user engagement
- Optimized performance and compatibility through responsive design techniques, providing a seamless browsing experience across devices and browsers

Bank Line Simulation | C++

Oct 2023

- Conceptualized and developed applications for calculating arrival, departure, and transaction times of a simulated bank line using C++
 - Implemented a priority queue Abstract Data Type (ADT) using a binary heap data structure, enhancing the efficiency of the applications
 - Integrated a feature to calculate and display the average transaction time and average time spent in line, providing valuable insights for performance improvement
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VOLUNTEERING EXPERIENCE

Technology Helper | The Church in Burnaby

May 2024 - Present

- Managed and handled Zoom hosting, including setup, troubleshooting, and facilitating smooth communication
- Collaborated with technology team to improve systems, enhancing functionality and user experience with technology related items
- Assisted in maintaining and operating audio and technical systems, fixing any technical problems that may arise

NON-TECHNICAL WORK EXPERIENCE

Learning Assistant | Kumon Math and Reading

Oct 2023 - Present

- Graded student classwork and homework, providing immediate feedback to facilitate learning development
- Demonstrated customer service skills in interactions with students and parents, addressing any inquiries promptly
- Provided regular feedback to students and communicated their progress with instructors, tailoring to individual need

Warehouse Associate | Bespoke Decor

Sept 2021 - Apr 2023

- Managed and executed physical packing of orders, ensuring timely delivery and maintaining the integrity of items
- Performed hands-on quality checks for all products, contributing to the company's reputation for excellence
- Fostered cross-functional collaboration, optimizing workflow efficiency and enhancing team productivity
- Handled dishwashing responsibilities for returned catering equipment, ensuring each item was thoroughly cleaned, inspected for quality, and packed properly for future events

Kitchen Staff | Triple O's

July - Sept 2021

- Maintained high-quality standards by efficiently preparing food items, ensuring consistency in taste and presentation
 - Operated and maintained kitchen equipment with precision, adhering to safety and sanitation guidelines
 - Mastered various cooking techniques, including grilling, frying, and sauteing, to meet customer preferences
 - Excelled in high-pressure, fast-paced environments, demonstrating adaptability and teamwork skills.
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