MATTHEW TSENG

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TECHNICAL SKILLS

Languages: Java, HTML, CSS, JavaScript, C, C++, Python
Libraries and Tools: SpringBoot, Postman, Bootstrap, Git/GitHub, PostgreSQL, RESTful API

PROJECTS

Portfolio Website | *HTML, CSS, JavaScript, Bootstrap* | GitHub   Dec 2023 - Present
- 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

Course Planner Web Application | *Java, Spring Boot, REST API* | GitHub   Mar 2024 - Present
- Designed and developed a scalable architecture following the Model-View-Controller (MVC) design pattern, leveraging the Spring framework for efficient separation of concerns and modular development
- 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
- Ensured data security and integrity by implementing robust error handling and validation mechanisms in the REST API

Inventory Management Website | *Java, SpringBoot, HTML, CSS, JavaScript* | GitHub   Jan - Apr 2023
- Collaborated within a team to develop a full stack application for managing toy and clothing inventory for a non-profit organization
- Implemented robust user authentication and session management for secure access to protected resources
- Implemented interactive data visualization with Chart.js to generate dynamic pie charts for real-time updates of inventory quantities
- Integrated dynamic text functionality with JavaScript and CSS to enhance user engagement

Bankline Simulator | *C++*   Oct 2023
- Developed a C++ Bank Simulation Application using Priority Queues and Array-based Queues for efficient event-driven modeling
- Implemented a Binary Heap-based Priority Queue for precise event processing and optimal handling
- Demonstrated proficiency in C++, OOP, and data structures

WORK AND VOLUNTEER EXPERIENCE

Technology Helper - Volunteer   Sep 2022 - Present
The Church in Burnaby   *Burnaby, BC*
- 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

Learning Assistant   Oct 2023 - Present
Kumon Math and Reading   *Burnaby, BC*
- 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 needs

EDUCATION

Simon Fraser University   Burnaby, BC
Bachelors in Computer Science   *2022 - 2026*
- Related Courses: Data Structures and Programming, Object Oriented Design in Java, Introduction to Software Engineering