MOHIT MASAND

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Education

Simon Fraser University Sept 2021-Present
B.Sc in Computing Science GPA: 3.50/4.33
Relevant Coursework: OOD in Java, OOP, Data Structures, Algorithms, Software Engineering, Database Systems, Applied Statistics, Linear Algebra, Discrete Mathematics

Technical Skills

Programming Languages: Java, C++, C, Python, Javascript, HTML, CSS
Technologies: MSSQL, Git, JUnit, REST APIs, React.js, TCP/IP, XML, HTTP

Transferable Skills

- Excellent written and verbal communication skills enhanced by working on group projects.
- Strong problem-solving and analysis skills developed from coursework, projects, and self-learning.
- Quick learner and open to new concepts and a curiosity to explore new technology.

Personal Projects

React Portfolio Website (mohitmasand.netlify.app) Jan-Feb 2023
- Designed and developed a responsive portfolio website using React.js and SCSS, utilizing the BEM methodology.
- Integrated Sanity as the CMS, fetching and displaying dynamic content in the React app via Javascript's client API.
- Utilized the Framer Motion React library to add dynamic animations, enhancing the overall user experience.
- Deployed the application to a live production environment using Netlify, ensuring seamless accessibility.

Sorting Algorithms Visualizer Dec 2022-Jan 2023
- Implemented a sorting visualizer website using HTML, CSS, and vanilla JavaScript, featuring 6 different sorting algorithms, each with customizable speed and array size options.
- Analyzed and wrote the most efficient version of each algorithm for optimized time complexity and performance.
- Represented a comparison in Big-O complexities of the algorithms by displaying the number of comparisons.
- Advertised the website as an effective learning resource tool and received positive feedback from 4 users.

Android Cooperative Game Converter Introduction to Software Engineering, SFU Sept-Dec 2022
- Built a responsive app using Java on Android Studio that allows competitive games to be played cooperatively.
- Utilized Google's Gson library to use SharedPreferences API to implement data storage and retrieval capabilities.
- Implemented multiple Unit Tests for the logic classes using the JUnit 5 framework to ensure bug prevention and improve code quality by 70%.
- Coordinated effectively in an Agile team of 4 members with skills in software engineering and UI design to convert user stories into code, resulting in a project final grade of 98%.

AVL Tree Implementation May-Aug 2022
- Implemented an AVL Tree data structure in C++, allowing for key-value pair storage and retrieval with logarithmic time complexity for insertion and deletion.
- Enhanced the functionality by implementing the ability to store any data types using template classes and methods.
- Wrote 13 test case functions to thoroughly check each component of the AVL Tree implementation, resulting in an 80% increase in code robustness.

Non-Technical Experience

Produce Clerk Real Canadian Superstore, Loblaws Inc., Surrey, BC Nov 2020-Apr 2021
- Assisted customers in their daily shopping needs by creating a comforting environment and assuring ease of navigation, resulting in a smooth and efficient experience for the customers.
- Stocked products, maintained inventory control, price marked, and code dated items to promote customer satisfaction and avoid confusion allowing for a positive and controlled setting.
- Supported new team members and consistently received positive feedback from customers and management.