Sahil Janjua

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Education

Simon Fraser University   Vancouver, BC
BSc: Software Systems   Sept 2018 - April 2024
- Relevant Courses: Data Structures and Algorithms, Databases, Distributed Systems, Networking, Web Systems Architecture

Technological Knowledge

Languages: Java, JavaScript, TypeScript, Python, C, C++, Go, Rust, SQL, x86 Assembly, HTML, CSS, Haskell, Terraform
Technologies: Node.js, Express, Spring Boot, GraphQL, Hystrix, Redis, Angular, React, Next.js, Vue, Selenium, RabbitMQ
Tools: Git, GitHub, Jira, Jenkins, Postman, JMeter, Docker, CloudFoundry, Google Cloud Platform

Work Experience

SAP - Software Test Developer for SAP Analytics Cloud   Jan 2022 - Sept 2022
Vancouver, BC
- **Developed and maintained** regression, Jasmine, and Selenium tests for blending and data analytics features.
- **Collaborated** with cross-functional teams to design comprehensive test plans based on software requirements.
- **Enhanced client satisfaction** by efficiently troubleshooting and resolving issues through direct communication with customers.
- **Improved proficiency** in JavaScript and software development practices through active participation in code reviews and sprint demos.
- **Led onboarding** for 2 new hires, creating and presenting a knowledge transfer curriculum.

Projects

Social Gaming Platform
- Created a multiplayer C++ game with customizable social features, implementing **distributed system architecture** for real-time player communication and efficient game state management.
- Designed **server-side components** following object-oriented principles for efficient game state management and consistent gameplay for all players
- Implemented rooms using **WebSockets** to communicate events between the clients and server in real-time
- Implemented a robust **messaging scheme using JSON** allowing for users to define the game configurations
- Contributed collaboratively to an **Agile sprint environment**, through iterative development cycles

Multimedia Review Platform (Letterboxd Clone)
- Developed a multimedia review platform using the **MEAN stack**.
- Integrated **TMDb API with Node.js** for dynamic data retrieval and implemented a tag-based genre search.
- Secured user interactions with **JWT authentication** and streamlined user management through efficient **CRUD operations**.
- Utilized **MongoDB** for efficient storage and retrieval of multimedia review data. Optimized schemas, indexing, and security for enhanced performance and reliability.
- Hosted the application on **Google Cloud Platform (GCP)** for optimal scalability and performance

Animal Encyclopedia
- Programmed a server running a **Spring Web MVC** framework application using **Tomcat** that provides a **REST API**.
- Visually displayed data, stored in a **JSON file**, on a **client-side application developed using JavaFX** and styled with **CSS**.
- Enabled efficient data retrieval and visualization in the Animal Encyclopedia through a **RESTful server** developed with Spring Web MVC and a JavaFX client application styled with CSS.