

Sahil Janjua

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Education

Simon Fraser University

BSc: Software Systems

Vancouver, BC

Sept 2018 - April 2024

- Relevant Courses: Data Structures and Algorithms, Databases, Distributed Systems, Networking, Web Systems Architecture, Embedded Systems

Technological Knowledge

Languages: Java, JavaScript, TypeScript, Python, C, C++, Go, Rust, SQL, x86 Assembly, HTML, CSS, Haskell

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, GCP, AWS, Terraform

Work Experience

SAP - Software Developer for SAP Analytics Cloud

Jan 2022 - Sept 2022

Vancouver, BC

- Gained proficiency in **web development and Node.js** through hands-on experience working on SAC's Blending feature.
- Elevated competency in software development practices by actively engaging in **code reviews and sprint demonstrations**, fostered skill enhancement and process refinement.
- **Developed and maintained** Regression, Jasmine, and Selenium tests for blending and data analytics features.
- Built strong **cross-cultural communication skills** while collaborating with international teams and clients, successfully overcoming language barriers.
- Enhanced client satisfaction through **issue resolution** using ServiceNow.

Projects

Social Gaming Platform

C++, JSON, HTML, CSS, JavaScript

- Created a multiplayer C++ game with customizable social features, implemented **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.

Multimedia Review Platform (Letterboxd Clone)

MongoDB, Express, Angular, NodeJS, JavaScript, JWT, GCP

- 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

Java, Spring Boot MVC, Tomcat, JavaFX, CSS

- Programmed a server running a **Spring Web MVC** framework application using **Tomcat** to provide 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.