

# Ruben Dua

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## Skills

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**Languages:** C++, C, Java, Python, SQL, JavaScript, HTML, CSS, LaTeX, Typescript

**Frameworks:** React, Angular, Spring Boot, Node.js, Rest API, JSON, Express, Next.js

**Libraries/Tools:** Git, Gitlab, GitHub, VS Code, Visual Studio, Anaconda, Jupyter, IntelliJ, Eclipse, MATLAB, Google Firebase, AWS Management Console, Vercel, Pandas, CI/CD, R

## Technical Work Experience

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### Frontend Developer

May 2024 – Aug 2024

CJSF 90.1, Simon Fraser University

- Enhanced user experience on the CJSF website by applying modern web design principles, such as responsive design, and intuitive navigation, to improve the interface of the legacy Drupal system
- Supported the migration from Drupal to a more flexible, API-based platform, ensuring future scalability and ease of updates while reducing reliance on outdated technologies
- Conducted a comparative analysis of APIs and platforms, recommending solutions based on compatibility, integration ease, and long-term maintainability

## Personal Projects

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### Tic Tac Toe Multiplayer | *React, Stream API, Express*

Dec 2024

[Website Link](#) 

- Built a full-stack multiplayer Tic Tac Toe web application using React for the front end and Express.js for the back end, enabling users to play in real-time and chat during gameplay
- Implemented bcrypt for secure password hashing and integrated the Stream Chat API to manage user sessions and store chat messages
- Deployed the application on Vercel, leveraging serverless architecture to ensure scalability and high performance

## Technical Project Experience

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### Course Planner | *Java, Spring Boot, Rest API*

April 2024

CMPT 213 Object Oriented Design in Java, Simon Fraser University

- Developed a Course Planner web application using Java 17 and Spring Boot, providing a comprehensive RESTful API to manage departments, courses, offerings, and watchers
- Designed and implemented multiple API endpoints to retrieve and manipulate course data, including features such as viewing course offerings, tracking student enrollment trends
- Created features to add, update, and delete course offerings and watchers, and visualized data trends with student enrollment graphs by semester

**Yelp Database Application | Java, JavaSwing, SQL**

Dec 2023

CMPT 354 Database Systems, Simon Fraser University

- Developed a Java Swing-based Yelp database application with SQL for login, search, and review
- Designed comprehensive search functionalities, allowing filtered business/user searches with dynamic sorting
- Integrated database triggers to automatically update business ratings and review counts, ensuring data integrity post-review submission

**Library Management System | JavaScript, Firebase**

Sep – Dec 2023

CMPT 276 Introduction to Software Engineering, Simon Fraser University

[Website Link](#) 

- Collaborated with four other classmates to develop a Library Management System using GitHub
- Developed a web application with HTML, CSS, and JavaScript for administrators to manage library functions and students to track loans and search books
- Implemented database through Google's Firebase service to establish a robust database with support of various authentication services

**Volunteer Experience****IT SQUAD Member**

May 2022 – Dec 2023

Fraser International College

- Developed effective communication skills by engaging with a diverse audience, including FIC staff, instructors, students, and colleagues
- Provided technical support to FIC students, instructors, and staff, ensuring seamless operations during classes and day-to-day management
- Demonstrated unwavering dedication to the IT Squad program by committing to two 2-hour shifts per week for two consecutive semesters

**Certifications****AWS Educate Introduction to Cloud 101**

Oct 2024

Amazon Web Services(AWS)

[Certificate Link](#) **SQL(Basic) Certificate**

Feb 2025

HackerRank

[Certificate Link](#) **Education****Simon Fraser University**

Jan 2023 – Present

Bachelor of Science – Computing Science

Burnaby, BC

**Fraser International College**

Sep 2021 – Dec 2022

Bachelor of Science – Computing Science

Burnaby, BC

**Interests****Sports:** Chess, Table Tennis**Entertainment:** Video Games (Valorant, Minecraft), Movies, TV Shows