Isabelle Kwan

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Education

Simon Fraser University   *Burnaby, B.C.*
Bachelor of Science in Computing Science (GPA 3.91/4.33)   *September 2022 – Present*
SFU Entrance Scholarship (with Distinction), CSSS Undergraduate Award, Dean's Honour Roll 2023-2024

Technical skills

Languages	Python, JavaScript, TypeScript, PHP, Ruby, C, C++, HTML, CSS, x86
Technologies	Node.js, React.js, Next.js, Ruby on Rails, Angular, Bootstrap, Tailwind, Flask, PostgreSQL
Tools	Git, Matlab, Microsoft Office, Docker, Figma, Jira

Experience

Software Engineering Intern   *Sep 2024 – Present*
Excelar Technologies | Python, Node.js, PHP, PostgreSQL, MySQL, Redis, Docker   *Burnaby. B.C.*

- Designed scalable APIs, improving access speed by **25%** and supporting seamless user experiences.
- Architected and implemented robust data models and backend systems, optimizing database schemas, reducing redundancy, streamlining data workflows, and enhancing query performance by **20%**.
- Refactored ETL pipelines, increasing data processing efficiency by **15%** and enhancing maintainability.

Research Intern   *May 2024 – Present*
SFU Interactive Experiences Lab · NSERC USRA | Javascript, VEGA-Lite, React.js   *Burnaby. B.C.*

- Co-authoring 2 published Human-Computer Interaction papers on generative AI and self-learning.
- Creating scripts to convert user's "study-habits" into interactive visualizations using **VEGA-Lite**.
- Managing 4 projects by facilitating meetings, creating agendas, and assisting in conducting user studies.

President   *May 2024 – Present*
SFU Computing Science Student Society   *Burnaby. B.C.*

- Effectively managing a team of 15, doubling initiatives and increasing community engagement by **150%**.
- Organizing a 5-day Silicon Valley trip for students to network with SFU alumni at large tech companies.
- Leading the organization of FROSH Week which hosted 9 events, over **60** volunteers, and **300** participants.

Personal Projects

Manage Ur Medication (M.U.M) | Python, Flask, PostgreSQL, Next.js, Docker | NWHacks   *Jan 2024*

- Built a website using **Python, Flask,** and **PostgreSQL** to assist users with tracking their medication intake.
- Created the user interface and front-end pages with a **Next.js** framework and **Material UI** library.
- Containerized front-end, back-end, and database, for easy deployment with **Docker**.

SFU Fitness Tracker | Ruby on Rails, PostgreSQL, HTML, CSS   *Sept 2023 - Nov 2023*

- Lead a team of 4 to design, develop, and deploy a web application for beginner's fitness tracking.
- Used **Ruby on Rails** to implement user authentication, search filters, and personalized dashboards.
- Implemented a database for registration, creating goals, and saving exercises to profile with **PostgreSQL.**

Villain Map | Angular, TypeScript, HTML, CSS   *Nov 2023*

- Developed a web app for managing 'villain' reports, with **Angular, TypeScript, HTML,** and **CSS**.
- Integrated **Leaflet** API and **OpenStreetMap** for dynamic mapping and visualization of data.
- Persisted reports and locations in a NoSQL database, utilizing an external API for data storage and retrieval.