### **EDUCATION**

## **Simon Fraser University**

**EXPECTED APR 2026** 

BSc. Computing Science, 3.62/4.33 GPA

Burnaby, BC, Canada

• **Selected Coursework:** Data Structures and Programming, Database Systems, Web Development, Computational Data Science, Visual Computing, Geographic Information Science, Spatial Data Analysis/Modelling,

#### **EXPERIENCE**

# Apple Inc. - Software Engineering Intern @ Maps

**MAY 2024 - AUG 2024** 

React, Redux, TypeScript, MapKit JS, Deck.gl

Cupertino, CA, USA

- Integrated Apple's MapKit JS into Kepler.gl, an industry-leading open-source tool for geospatial analysis of large-scale data sets, enhancing it with advanced 2D-3D visualizations, split map views, and custom Apple-themed visualization palettes in collaboration with design teams.
- Developed and executed an integration plan to **refactor** existing mapping frameworks using the **adapter**, **factory**, and **object-oriented** design patterns, enhancing the **scalability**, **maintainability**, and **API extensibility** of the application.
- Managed weekly deliverables and presented the solution to Leadership, demonstrating **performance** improvements, enhancements to codebase **architecture**, and refined **visual design**.

## **PERSONAL PROJECTS**

JOBJUG (A) MAY 2024

React, JavaScript, Tailwind, Python, Flask, OpenAI API, Gmail API, MongoDB

StormHacks 2024

- Created a job application tracker that **utilizes AI** to automatically categorize job applications into their respective stages within their hiring processes.
- Implemented a dashboard that **automatically categorizes** and sorts job applications into three groupings, with each group representing a stage in the application process.
- Used the Gmail API to extract job application emails, and then provided them to the OpenAI API for classification.
- Built a **REST API**, using Python and Flask, to store users and their tracked job applications in a **MongoDB database**.

MOMENTS (7) FEB 2024 - APR 2024

React, TypeScript, HTML/CSS, Tailwind, Leaflet, Node.js, Express, MongoDB

Simon Fraser University

- Collaborated with three others to create a geospatial journal application that provides interactive features to assist in self-reflection through the creation of geographic "memos".
- Employed the Model-View-Controller design pattern, to structure the front end into modular components.
- Utilized Leaflet to facilitate user interaction with **embedded maps**, allowing memos to be **geo-tagged** and **geo-spatially visualized** across **different views**.
- Interacts with a **REST API**, built with Node, is and Express, to store users and memos in a **MongoDB database**.

JAPANGO () MAY 2023

React, Tailwind, HTML/CSS, JavaScript, WebSockets, FastAPI, Python, Firebase

StormHacks 2023

- · Created a language-learning web application where users challenge each other to test their Japanese language proficiency
- Utilized WebSockets to implement multi-session multiplayer, allowing players to participate in real-time matches.
- Incorporated a Firebase database, in conjunction with a REST API, to manage user metrics and translation data

# IUPAC DISCORD QUIZ BOT 🗘

**SEP 2022** 

Discord.py, Node.js, Express, Python, JavaScript, MongoDB

HackToSchool 2022

- Built a Discord bot that quizzes students on the IUPAC names of organic chemical compounds
- Created a **REST API** using Node.js and Express to store and retrieve quiz information and player metrics.
- Submitted the project 10 hours ahead of schedule through effective team programming, Git usage, and communication
- Executed a spaced repetition algorithm, leading to an **improvement** in students' final grades by **up to 5 percent** when compared to those who did not make use of the bot.

## **TECHNICAL SKILLS**

Languages: Python, C/C++, HTML/CSS, JavaScript, TypeScript, SQL, MATLAB

Technologies/Frameworks: React, Redux, Deck.gl, Angular, Node.js, Express, MongoDB, Git, QGIS, ArcGIS Pro