GREGORY LIU

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EDUCATION

Bachelor of Commerce, UBC *Sauder School of Business,* University of British Columbia   *Completion: May 2026*
Combined Major in Business and Computer Science
- Cumulative GPA: **3.9/4.0**
- Key Courses (avg %, class avg %): Software Construction (94, 79), Models of Computation (91,76), Management Information Systems (90, 74), Computer Systems (85, 74), Data Structures and Algorithms (84,78)
- Awards: Trek Excellence Scholarship (2024W), awarded to students in the top 5% of their year and faculty

WORK EXPERIENCE

Software Developer Intern, *Stay Fresh Footwear,* Richmond, BC   *January 2024-April 2024*
- Designed and developed product, shop, and account pages using **React Native** to create an intuitive and visually appealing user interface
- Built and maintained backend services with **Node.js**, using **Express** to create 35+ robust RESTful APIs, ensuring seamless communication between the frontend and backend systems
- Analyzed and optimized app performance, reducing load times by 20% and improving responsiveness by employing best practices in coding and debugging.

PROJECTS

NBA Fantasy Projections Project | *Python/Flask/SQLite/JavaScript/React/Tailwind*
- Developed a web application to predict and rank the best NBA players for fantasy leagues based on historical statistics, enabling users to make data-driven decisions when picking their fantasy teams
- Used **Python** for web scraping player statistics from **3+** sources, processed and cleaned the data using the **Pandas** library, then implemented basic machine learning algorithms to predict player performance
- Designed and developed an interactive and responsive user interface using **React**, allowing users to visualize player rankings, and filter data using **6+** criteria
- Built a scalable backend using **Flask** to serve the processed data and store results in an **SQLite** database, ensuring quick and reliable access to rankings and predictions

Tourist Attraction Application | *JavaScript/React/Node.js/Express/Oracle/SQL*
- Developed a full-stack web application where users can log in, view locations and events, make bookings, and write reviews, using **React** for the frontend, **Node.js** with **Express** for the backend, with a **SQL** database in **Oracle** to manage user and application data
- Implemented advanced filtering and search features in the backend to process queries for **over 1,000** locations and events, and developed intuitive frontend components for filtering by rating, category, and event attributes
- Designed user profile functionality, including backend logic for managing user data and frontend interfaces for updating passwords, viewing bookings and reviews, and deleting entries.

Personal Schedule Maker | *Java/Swing/JUnit*
- Designed a personal schedule-making application with **Java Swing**, realizing **7** user stories with features like secure schedule saving and intuitive GUI for creating, viewing, and editing multiple custom schedules
- Built functionality for saving and loading schedules, letting users to access and modify their schedules over time
- Developed **40+** tests using **JUnit** to ensure application reliability, ensuring full functionality of all features

LEADERSHIP

Sunday School Teacher, *South Surrey Christian Assembly,* Surrey, BC   *August 2022-September 2024*
- Led weekly lessons and ensured the well-being of 15-20 kids each week, providing guidance and support to foster a positive learning environment.
- Directed activities and organized camp-wide games as a group leader at SSCA's yearly children's camp

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, R, C++, C, HTML/CSS, SQL, TypeScript, Bash
Frameworks: JUnit, React/React Native, Django, Flask, Node.js, Express, Tailwind, Java Swing
Developer Tools: Overleaf, Git, Microsoft Office Suite, IntelliJ, Eclipse, Visual Studio Code