Le Xi (Dominic) Huang

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Education

University of British Columbia **Vancouver**

BSc. in Mathematics, Minor in Computer Science. *September 2022 - May 2026.*

- Recipient of **BC Achievement Scholarship** (**Top 5%** of BC high school graduates).
- Served as **Treasurer** for UBC Badminton Club, managing finances for **200+ members** and maintaining accurate financial records.
- Relevant Coursework: **Data Structures & Algorithms, OOP, Statistical Modeling, Operating Systems**

Professional Experience

Full-Stack Developer - UBC Badminton Club **January, 2025**

- Developed a **mobile-first web application** using **React.js, Node.js and PostgreSQL**, reducing administrative workload by **80%** through an automated event scheduling system with wait-list support.
- Engineered secure **RESTful API** endpoints with **JWT authentication** handling **1000+** monthly user interactions with comprehensive input validation, error handling, and role-based access.
- Implemented **OTP email verification and password recovery**, decreasing support requests by **25%** using Nodemailer, and improving account security.
- Collaborated with club executives using **Agile methodologies**, delivering features in **weekly sprints** with consistent on-time delivery.

Technical Projects

Traveling Hotel Game (Class Project) **April, 2023**

- Demonstrated expertise in **Java, JSON, and JUnit** by developing a game for tracking hotel spending budgets and implementing features like budget tracking, hotel searches, and save/load travel lists, earning a grade of **106%**.
- Applied **OOP principles** like **event logging** and the **singleton pattern** to enhance performance and debugging.

Chrome Extension Combating Dyslexia (Hackathon) **January, 2024**

- Led team to develop **font injection system** improving readability for **30+** test users with dyslexia and visual impairments.
- Implemented real-time font switching with zero page reload using **React.js**, enhancing user experience.

Credit Card Default Predictor (Class Project) **March, 2025**

- Applied **Python** expertise to analyze a **30,000-observation** credit card default dataset, using machine learning techniques (**Random Forest, LightGBM**) and scalable pre-processing pipelines for missing values, encoding, and standardization.
- Developed **12** visualizations with SHAP values to explain model decisions and feature importance.

Technical Skills

Web Development: JavaScript, React.js, Node.js, Express.js, REST API, HTML, CSS.
Programming: Java, C, C++, Python, R, JUnit, JSON.
Technologies / Styling Frameworks: Git, VSCode, IntelliJ, Tailwind, Bootstrap.