

Kaylee Xiao

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Skills Summary

Languages: Python, Java, TypeScript, Assembly, SQL, JavaScript, HTML, CSS, Dart

Technologies / Frameworks: Git/GitHub, React, Node.js, Flutter, Django, MySQL, PyTorch, Figma

Soft Skills: Teamwork, Adaptable, Communication, Time Management, Problem Solving, Patient

Education

University of Calgary - Bachelor of Science in Computer Science

Sept 2022 - Present

- Enrolled in the Science Internship Program

- **Relevant Coursework:** Data Structures & Algorithms, Object-Orientated Design, Computing Machinery, Information Security & Privacy, Database Management Systems, Machine Learning in Biometric Security

Work Experience

Research Assistant | University of Calgary GSI Lab

May 2025 - Present

- Contributing to an Alberta-based Sentinel-2 land cover classification project, implementing deep learning models (e.g., UNet, HRNet) for pixel-level classification. Worked on data preprocessing, model training, and evaluation using Python, PyTorch, and geospatial tools. Supported environmental monitoring through iterative model development and accuracy analysis.

Projects

PetPals - Mental Health Platform (github.com/ryanwoong/PetPals.git)

Hack the Change YYC 2024 Hackathon

- Focused on front-end development to design an interactive platform where users can share journal entries, connect with a supportive community, and engage with gamified features, using React, Figma, and Mantine for a seamless interface.
- Used Firebase and Express.js for the backend, integrating the Gemini API to assign tags and personalize the "For You" page, and collaborated with a team of 5 to complete the project within a 24-hour timeframe.

RevRentals - Rental Management Platform (github.com/aeMyst/RevRentals.git)

- Designed and implemented a relational database schema using MySQL, supporting user profiles, reservations, and transactions by creating complex SQL queries for CRUD operations and relational joins, ensuring efficient data management.
- Integrated and developed a full-stack rental platform by connecting a Django REST Framework backend with Flutter front-end components, building RESTful APIs for user authentication and notifications, and collaborating with a team of 4 to deliver functionality for renters, sellers, and administrators.

FitQuest - Fitness Tracking Application (github.com/kayleexiao/FitQuest.git)

- Designed and developed a mobile-friendly fitness tracking platform focused on user interface and experience using Figma, React, JavaScript, HTML, and CSS, featuring custom workout creation, progress tracking, and calendar-based history while leveraging local storage for seamless functionality.

Involvement

Jr. VP Marketing | Women in Cybersecurity Club

September 2024 - Present

- Promoted and supported club events, including networking sessions and hackathons, by coordinating marketing efforts, engaging with students through social media and outreach, and assisting with event planning and on-site activities, increasing attendance and club visibility.