

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.

Personal Portfolio Website - Website Link (github.com/kayleexiao/kaylee_portfolio)

- Built and deployed a responsive personal portfolio using Next.js, TypeScript, and Tailwind CSS with reusable components, light Framer Motion animations, dynamic project pages, and Vercel hosting, improving mobile UX, and visual consistency.

Involvement

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.