ERIC LI
University of Waterloo CS Student and Five-Time Hackathon Award Winner

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Portfolio: ericli3690.github.io

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Skills

Languages: Python, Java, Javascript, Kotlin, SQL, HTML, CSS
Technologies: ReactJS, ReactNative, Android, Firebase, AWS, PostgreSQL, Tailwind, NextJS, MongoDB, APIs, Git

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Education

University of Waterloo, Bachelor of Computer Science | *Waterloo, ON*　　　　*Sep 2024 – Apr 2028*
- **4.0 GPA** (Percentage Average: **96.2%**)
- Admitted into a program with a **3.85%** admission rate, won **$85 000+** via 12 scholarships

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Projects

Midnight Sun Solar Car Design Team | *Strategy Subteam*　　　　*Sep 2024 – Present*
- Utilized **Python**, **AWS RDS**, and the **Solcast API** to design an irradiance and route model database system
- Achieved **45X** faster route model generation by optimizing **psycopg2**-to-**PostgreSQL** write operations

Top 3 Finalist in ASNA 2024 Hackathon　　　　*Oct 2024 – Jan 2025*
- Analyzed insurance data to predict risk using a **93.6% accurate machine learning model**, utilizing an **XGBoost** decision tree model via **Python**'s **Scikit-Learn** and **Pandas** packages as well as **Google YDF**

1st Place at MediHacks 2024 Hackathon　　　　*Jul 2024*
- Developed a **ReactNative** mobile app together with **NativeWind** and the **Google Maps API** to help first responders react to emergencies, beating **450+** contestants and winning **$2000**
- Processed emergency location data and chat messages using **Firebase** and **Nominatim API** reverse geocoding

Android Mobile App: History Game | *Chronicler*　　　　*Jun 2023 – Feb 2024*
- Designed and created a **Java Android** app in **Android Studio** for the creation and organization of flashcards
- Utilized heap and sorting algorithms, as well as the **Google GSON** library, to store data efficiently

1st Place at Hack The Change 2023 Hackathon　　　　*Nov 2023*
- Created a **NextJS** app as part of a modular plant pot project, utilizing **Firebase**, **Tailwind**, a **Python Flask** server to receive data from an ESP32, and the **Google Maps API**; won **$5000** against **250+** contestants

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Experience

Ford, Incoming Software Developer Intern | *Calgary, AB*　　　*(Upcoming) May 2025 – August 2025*
- Will use **Android Studio**, **Java**, and **Kotlin** to build software for in-development cars on the Projection team

Co-Founder of Citywide Coding Competition | *Calgary, AB*　　　　*Jun 2023 – Oct 2023*
- Co-founded a citywide high school hackathon and **led a nine-person executive team**, attracting **$2000+** in corporate funding from companies including Postman and Wolfram Alpha; drew 100+ participants

Colliers, Tenant Services Coordinator Intern | *Calgary, AB*　　　　*Jul 2023 – Aug 2023*
- Independently designed and executed downtown events for a **leading international real estate company**

Calgary Taichi and Martial Arts College, On-Call Assistant | *Calgary, AB*　　　*Jun 2021 – Aug 2023*
- Used **Python** to automate and streamline the creation of 1000+ report cards/year on own initiative
- Modernized record-keeping by creating a central database of 400+ students using Excel and Mailchimp

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Achievements

Immigrants of Distinction Awards, Youth Achievement Winner, Immigrant Services Calgary　　　*Aug 2024*
Alberta Premier's Citizenship Award, Cenovus Energy STEM Scholarship, Van Visvanatha Scholarship *Jun 2024*
Distinction (top 25%) in the Euclid Math Contest, University of Waterloo　　　　*Apr 2024*
Volunteer of the Month, High School Volunteering Club　　　　*Oct 2022*