

Xinjie Ye

✉ Edmonton, AB ☎ +1 (587) 873 6828 📩 xye1@ualberta.ca 🌐 [Linkedin](#)

Skills	Languages & Frameworks Java, Python, C/C++, C#, JavaScript, Dart, Go, Julia, MATLAB, PHP, React, Node.js, Django, Flask, Flutter	
	Data & Cloud Technologies PostgreSQL, MongoDB, SQL, Firebase, Google Cloud Platform, AWS, Docker, GitHub Actions	
	Development Tools Git, Linux, Android Studio, VSCode, Cursor, Postman, Unity, LaTeX, Nginx, Agile, Autodesk	
Education	University of Alberta Bachelor of Science in Computer Science	September 2021 - August 2025
Work Experience	deenSTRONG Foundation Software Developer Full-time Intern	May 2024 – August 2024 Calgary, AB
	<ul style="list-style-type: none">Developed key backend features for a health and wellness mobile application using Go and PostgreSQL, enabling users to receive personalized advice.Engineered and integrated a ChatGPT API solution to deliver personalized diet and exercise recommendations, significantly enhancing user engagement and content customization.Contribute to the development and deployment of a web application that showcases a cryptocurrency whitepaper using AWS and WordPress.Assist in testing and debugging the application to ensure a high-quality user experience.	
	C2 Conscious Customers Software Developer Intern	January 2024 - April 2024 Edmonton, AB
	<ul style="list-style-type: none">Built and implemented responsive, user-facing features for a cross-platform mobile application using Dart and the Flutter framework.Architected and managed the real-time data synchronization of user inputs across web and mobile platforms using Google Firebase Firestore.Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.Utilized Android Studio as a development environment in order to visualize the application in both iOS and Android.	
	Department of Civil and Environmental Engineering, University of Alberta Part-time Research Assistant	November 2024 - June 2025 Edmonton, AB
	<ul style="list-style-type: none">Developed automation scripts using pyautocad and pyRevit libraries to streamline BIM (Building Information Modeling) workflows and data extraction processes.Implemented Python-based solutions to automate repetitive tasks in AutoCAD and Revit, reducing manual processing time by significant margins.Collaborated with researchers to analyze and manipulate BIM model data for construction and architectural research projects.	
Projects	Optiver Realized Volatility Prediction Python, Jupyter notebook, Git	
	<ul style="list-style-type: none">Developed a machine learning model to predict short-term volatility for hundreds of stocks across different sectors.Conducted extensive feature engineering to improve the accuracy.Trains and evaluates LightGBM models and a neural network model using cross-validation.Achieved the root mean square percentage error as small as 0.22541.	
	CatchTheCode Java, Kotlin, Android Studio, Google Firebase, Google Cloud Platform, Git	
	<ul style="list-style-type: none">Designed and Developed a Android application for users to scan unique QR codes and compete with other online users and leveraged the ZXing library to integrate QR code detection functionality.Implemented Google Firebase for cloud storage, providing secure and scalable storage options for the application.Utilized Google Map API to integrate location-based services into the application, enabling users to locate and track nearby codes in real-time, enhanced user experience and increased engagement.	
Volunteering	Grand River Chinese School Chinese School Teaching Assistant	September 2019–March 2020 Waterloo, ON
Awards	Maple Leaf First Year Excellence Scholarship University of Alberta	September 2021
	University of Alberta Undergraduate Scholarship University of Alberta	September 2021 - Septmber 2024
	Top 3% in Euclid Contest	September 2021
	Top 5% in Canadian Senior Math Contest	September 2021
Languages	English ★★★★★	
	Mandarin Chinese ★★★★★	