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| <div><div>Xinjie Ye</div><div><div><div><div></div><div>Edmonton, AB</div></div><div><div></div><div>+1 (587) 873 6828</div></div><div><div></div><div>xye1@ualberta.ca</div></div><div><div></div><div>Linkedin</div></div></div></div></div> | | |
| 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 | |
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| Education | University of Alberta | September 2021 - August 2025 |
| Bachelor of Science in Computer Science | | |
| 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. | |
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| Volunteering | Grand River Chinese School | September 2019–March 2020 |
| Chinese School Teaching Assistant | | |
| Waterloo, ON | | |
| Awards | Maple Leaf First Year Excellence Scholarship | |
| | University of Alberta | |
| | University of Alberta Undergraduate Scholarship | September 2021 - Septmber 2024 |
| | University of Alberta | |
| | Top 3% in Euclid Contest | |
| | September 2021 | |
| | Top 5% in Canadian Senior Math Contest | |
| | September 2021 | |
| Languages | English | |
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| | Mandarin Chinese | |
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