

# Jerry Cui

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## EDUCATION

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### University of Waterloo

Computer Science

Waterloo, ON

Sep. 2025 – Jun. 2030

## EXPERIENCE

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### Android App Developer

Digitera

Sep. 2023 – Jan. 2024

Remote

- Designed mobile app using **Jetpack Compose** in **Android Studio**
- Created functionality and communication with backend using **Kotlin**
- Led a small team using tools like **Slack** and **GitHub**

## PROJECTS

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### League of Nations | *Next.js, Firebase, TypeScript, PHP*

Oct. 2024 – Present

- Architected and deployed a full-stack **Next.js 13+** application with **Firebase** integration, implementing server-side rendering and custom **React** hooks
- Engineered a real-time multiplayer system using **Firebase Cloud Functions** and **Firestore**, handling concurrent user interactions with optimized database queries
- Developed responsive and accessible UI components using **Tailwind CSS** and modern **React** patterns, achieving a **90%+ Lighthouse performance score**
- Implemented a scalable backend using **TypeScript** and **Firebase Cloud Functions**, processing real-time updates from the server
- Earned over **\$600** from in-game purchases from the **100+** players, and configured a wiki using **MediaWiki** for the community
- Originally launched the website using **PHP**, **SQL**, and **JavaScript**

### JaGame | *Java, Python*

Jan. 2025

- Created a **Java** package to simplify Java game development, by making it more similar to PyGame
- Planned out project requirements and timeline and led a team of classmates
- Wrote meticulous **documentation** and tutorials

### CCC Solution Repository | *Python*

Nov. 2024 – Present

- Created and regularly update a repository of solutions to the Canadian Computing Contest

### Math Test Generator | *Python, Tkinter, Latex*

Apr. 2024

- Developed a fully functional prototype within 24 hours by leading a team of 4
- Used random generation to procedurally develop Grade 12 level math tests and an answer key
- Used **Python** for the backend and **Tkinter** for the frontend

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL (MySQL), JavaScript, HTML/CSS, TypeScript

**Frameworks:** React, Node.js, MediaWiki

**Developer Tools:** Git, Firebase, Google Cloud Platform, Visual Studio, PyCharm, IntelliJ, Cursor

**Libraries:** Pygame, Tkinter