

# Youyi Yan

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## SUMMARY

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Computer Science student who enjoys building reliable systems from the ground up. Experienced in **Go, Python, C, and C++**, with strong foundations in backend development and cloud deployment. Currently exploring React and TS to grow into a full-stack developer and deliver end-to-end solutions.

## TECHNICAL SKILLS

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**Languages:** Go, Python, C, C++, Kotlin, SQL, HTML  
**Frameworks & Tools:** Gin, GORM, React, Android Studio, PostgreSQL, Docker, Git, CI/CD (Drone)  
**Cloud & Platforms:** DigitalOcean, Hatzner, Azure, Linux, macOS, Windows

## PROJECTS

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### WaterlooStar.com – Student Community Forum

[waterloostar.com](https://waterloostar.com)

- Building a community forum for Waterloo students with sections for housing, campus deals, events, and course resources; currently focusing on the housing module.
- Proposed and initiated the project; leading the website concept and UI/UX design, and developing the backend architecture, APIs, and database integration in **Go** with **PostgreSQL**.
- Deployed a working prototype with CI/CD automation and cloud hosting.

### Spinema – Group Movie Selection app

- Developing an Android app that helps groups choose movies through voting and a weighted spinner.
- Designing the app architecture and UI flow in **Kotlin** with **Android Studio**, collaborating with a team to integrate room creation, movie voting, and spin-based selection for responsive performance.

### RAIInet: Terminal-based Strategy Game

- Led a team of three in developing a **C++** game project, organizing tasks and overseeing progress while personally programming the core framework and gameplay functionalities.

## RELATED EXPERIENCE

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### Microsoft Azure & AI Fundamentals, Waterloo Experience (WE) Accelerate Program

- Built and presented a wireframe for an investment solution using Microsoft Azure AI and cloud services, collaborating with teammates to refine designs.
- Certified: **Azure Fundamentals (AZ-900)** and **Azure AI Fundamentals (AI-900)**

## WORK HISTORY

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### NB INC dba STEMBlock

May 2025 - Aug 2025

- Built a student portal backend in **Go** (**Gin**, **GORM**, **PostgreSQL**) with secure authentication, rate limiting, session management, and RBAC.
- Integrated backend APIs with the frontend and deployed on **DigitalOcean** using CI/CD pipelines.
- Designed and taught an introductory **Python** class for kids with hands-on exercises to build basic coding knowledge and foster problem-solving skills.

## EDUCATION

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2023 - present Bachelor of Computer Science at **University of Waterloo**

(expected in 2028)