

Simian Wang

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Education

University of Waterloo

Candidate of Bachelor of Computer Science, Honours Co-op

Sept 2024 – Present
Waterloo, ON

- 2025 Cumulative GPA: 83.70%
- Received Mathematics National Scholarship, 2024

Technical Skills

Languages: C, C++, Python, SQL, HTML, CSS, JS/TS, Haskell

Developer Tools: Linux, Git/Github, Bash, Drone CI, Nginx, Caddy, 1panel

Libraries/Frameworks: Pandas, Numpy, Pygame, Hexo, Flask

Experience

Full-stack Website Developer

Molion Technology

Shanghai, China

May 2025 – August 2025

- Built a production-grade crawler system to collect influencer data across multiple social media platforms.
- Leveraged the **DeepSeek API** to generate optimized search keywords for client SKUs, improving discovery.
- Built cross-platform search pipelines using AI-generated keywords to automatically identify potential influencers.”
- Designed an AI-assisted scoring algorithm that integrates model outputs with custom metrics to compute an **influencer index** and rank candidates for clients.

Competitive Programming

High School Programming team

New Brunswick, Canada

Sept 2021 – Jun 2023

- Collaborated with teammates to secure **first place** in the New Brunswick High School Competitive Programming Competition.
- Achieved **Senior Honor Roll** distinction in the U of Waterloo’s Canadian Computing Competition (CCC).
- Achieved **1338** rating on DMOJ
- Specialized in algorithmic problem solving with modern **C++** (STL, templates, optimization).

Projects

RAInet — C++20, X11

Nov 2025 ↗

- Implemented an innovative **Stratego-inspired strategy game** using modern **C++20** and low-level **X11** graphics.
- Developed modular game logic, event handling, and rendering pipelines without external game engines.

Self-Hosted Infrastructure Project — Linux, Nginx, 1Panel, FRP

Sep 2025 – Present

- Deployed a self-hosted server by renting a VPS on **Hetzner** and configuring it as a public FRP endpoint.
- Set up secure **FRP reverse proxy** forwarding from the VPS to a local Linux machine, enabling external access without exposing the home network.
- Installed and managed **1Panel** to streamline service, container management, and system monitoring.
- Configured and maintained **Nginx** to host multiple websites for my organization and friends, including domain routing and SSL certificates.

My Pacman — Python, Pygame

Dec 2024 - Jan 2025 ↗

- Implemented full game architecture in **Python**, emphasizing clean modular design, state management, and event-driven logic.
- Implemented the four ghosts’ behaviors using **algorithmic pathfinding**, vector math, and custom AI logic rather than built-in Pygame utilities.
- Optimized core update loops and data structures to achieve smoother frame rates, reducing redundant computations and eliminating wall-flickering artifacts.