

Yulian Zhu-Yu

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Experience

Computer Game Programmer Intern

July 2026 - August 2026

Second Fiddle Studios, Ecssen Career School

Calgary, Alberta

- Built core gameplay systems in Luau over 38 commits and 9 pull requests, synced through Rojo.
- Implemented a complete multiplayer gamemode with server-side validation and client-side UI
- Developed customizable UI/UX components (PromptGui, Shops, Inventory)
- Communicated asynchronously to work with managers between time zones
- Documented and presented a term-end demo and summary of work to managers across multiple time zones, covering 5 major gameplay features.

Computer Specialist - Summer Internship

July 2025 - August 2025

Solarbotics Ltd

Calgary, Alberta

- Developed a website using Wordpress and PHP for plugins to add functionality for the website
- Optimized load times and mobile usability using Lighthouse, down to less than 1 second of loading
- Migrated over 3400 products between databases utilizing SQL, Pandas, and PowerShell scripts
- Developed macros using AutoHotkey to effectively edit over 5000 images

Robotics Club Mentor / Senior Member

January 2022 – July 2025

Churchill Robotics 3388C

Calgary, Alberta

- Planned and iterated a competition robot over multiple revisions in a 6-person team, winning Tournament Champions at Alberta Provincials
- Developed autonomous routines and control software with C++, Pros and LVGL
- Managed inventory and ordering parts in spreadsheets
- Documented and presented our design process throughout the season

Education

University of Toronto

Expected 2029

Bachelor of Science

GPA: 3.58/4.00

- Computer Science Specialization, Applied Math Major, Stats Minor

Projects

Kobuki Autonomous Robot

October 2025

- Built a 3D mapping and navigation system for the kobuki robot using ROS2 and Nav2
- Implemented computer vision using a Kinect RGB-D sensor processed through a Raspberry Pi
- Validated robot perception and navigation in simulation using Gazebo and Rviz2

Self-Hosted Homelab

July 2025

- Configured a headless Ubuntu Server on a Dell OptiPlex running multiple services via Docker
- Set up reverse proxying with Nginx and remote access with Tailscale VPN
- Deployed local web applications using Python and Flask

Capture the Flag Competitions

PicoCTF, PascalCTF, NOPSctf

- Solved Web Exploitation and Reverse Engineering challenges across multiple CTF competitions
- Placed in the top 100 at PascalCTF

Volunteer Experience

London Public Library Volunteer

May 2023 - May 2024

- Coding Buddies (Gr 1-3), learned to work with young kids and adjust accordingly
- Coding Club (Gr 4-6), learned to change lesson plans based on the kids skill level

Girl Powered Robotics Workshop Volunteer

July, 2023

- Acted as a mentor for 2 groups of girls for an event promoting inclusivity in STEM
- Supported 2 groups of 6 build, program, and revise a simple robot

Technical Skills

Languages: Python, C/C++, Java, JavaScript, HTML5/CSS3, Luau

Frameworks: ROS2, Gazebo, Flask, React, WordPress

Developer Tools: Git, GitHub, Docker, VS Code, Unity, Roblox Studio, Rojo

Libraries: pandas, NumPy, Matplotlib

Other: Microsoft Office (Word, Excel, Powerpoint), Google Suite, Documentation