

Tianlun (Kiko) Chen

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EDUCATION

University of Toronto

Toronto, ON

Honours Bachelor of Science in Computer Science, Specialist; Minor in Psychology May 2029 (expected graduation)

- Arts and Science Internship Program (Co-op)
- GPA: 3.82/4.0

EXPERIENCE

Autonomy Simulation Developer

July 2025 – Present

University of Toronto Formula Racing

Toronto, ON

- Developing a ROS 2-Unity simulation pipeline for the FSAE Driverless race, enabling off-track testing
- Rewrote Dockerfile for one-step dependency installs, resulting in a reliable colcon build for the full DV stack
- Took initiative and streamlined outdated onboarding by flagging 2 critical repo issues, making 10+ major updates to the setup doc, and implementing per-error instructions, taking setup time from an average of 2 days to 2 hours
- Currently bringing up the full stack in sim

VP Marketing

Sep. 2022 – June 2024

Crescent School Business Team

Toronto, ON

- Coordinated design feedback from a 23-member executive team to achieve brand alignment
- Re-branded the team and replaced the 8-year-old icon with a more memorable and professional logo
- Revamped the website for user friendliness and visual appeal
- Designed and sold 74 business team quarter-zips and hoodies

Video Editing Intern

Aug. 2021

Results Advertising

Toronto, ON

- Edited 10 videos over 3 weeks for companies like Tridel, Plazacorp, and Cornerstone

PROJECTS

Portico | WebRTC, MediaPipe, JavaScript

Sep. 2025 – Present

- Prototyping video-calling system with portal effect using ultrawide camera feed and gaze-controlled part rendering
- Tested and validated MediaPipe eye-tracking models to confirm responsiveness

WarehouseBrawl RL Agent | Python, PyTorch (CUDA), Stable-Baselines3 (PPO)

Oct. 2025 – Nov. 2025

- Trained a self-play PPO agent to play a 2D platform fighter, utilizing GPU acceleration with CUDA
- Designed platform-aware reward shaping, creating a survival-first strategy to avoid self-KOs and pressure opponents off-stage

Wikipedia Speedrun Solver | Python, MediaWiki API, Tkinter, Matplotlib, Git

Mar. 2025 – Apr. 2025

- Developed a Tkinter desktop app that finds the shortest link path between any two Wikipedia articles
- Implemented a multithreaded bidirectional search, delivering sub-second results with an average of 4 link clicks
- Added autocomplete search, a cache viewer, and interactive graph visualization using Matplotlib and NetworkX

TECHNICAL SKILLS

Languages: Java, Python, C#, R, JavaScript

Developer Tools: Git, VS Code, PyCharm, PyTorch, IntelliJ, Unity, Docker, ROS 2

Design: Photoshop, Illustrator, Lightroom Classic, DaVinci Resolve, Blender, InDesign

AWARDS

Computer Science Canadian Computing Competition – Distinction (2024)

Mathematics Canadian Senior Mathematics Contest – Distinction (2023)

Cayley Contest – Distinction (2022)

Canadian Intermediate Mathematics Contest – Distinction (2021)

Business DECA Ontario – Top 20 MCS Overall (2023)

DECA Ontario – Top 20 BSM Role-play (2022)