

# Tianlun (Kiko) Chen

(647) 525-6972 | [kikochent@gmail.com](mailto:kikochent@gmail.com)

## EDUCATION

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### University of Toronto

Toronto, ON

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

GPA: 3.82/4.0

## EXPERIENCE

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### 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 reliable colcon build for the full DV stack
- Streamlined outdated onboarding process by flagging 2 critical repo issues, making over 10 major updates to the setup doc, and implementing per-error instructions, taking setup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
  - 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

### Interim Editor

Aug. 2021

*Results Advertising*

*Toronto, ON*

- Edited 10 videos over 3 weeks for companies like Tridel, Plazacorp, and Cornerstone
  - 8 testimonials boosting brand credibility
  - 2 award ceremony videos extending event visibility

## PROJECTS

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### 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

### 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

## TECHNICAL SKILLS

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**Languages:** Java, Python, C#

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

## AWARDS

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**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)