

# Simon Lin

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## EDUCATION

### Toronto Metropolitan University (Ryerson University)

Toronto, ON

*Bachelor of Science - Computer Science with Co-op*

*Sept. 2021 - present (est. May 2026)*

**Awards:** Dean's List (2025)

**Relevant Coursework:** Software Engineering, Data Structures, Machine Learning, Artificial Intelligence, OS

## EXPERIENCE

### Software Engineer Intern

May 2025 - present

*Magna International*

*Newmarket, ON*

- Developed and implemented RESTful API endpoints using **Flask** + **Vue.js** frontend for dynamic data operations.
- Built a CATIA automation tool, removing manual data entry in **CAD** files, improving efficiency for cross-functional engineering teams
- Took full ownership of a full-stack web application, integrating backend services with responsive user interface.

### Software QA Automation Intern

Sept. 2023 – Aug. 2024

*SOTI*

*Mississauga, ON*

- Developed **automated** test plans, test cases and unit tests in **C#**, **Selenium** and **Microsoft Azure DevOps** adhering to software requirements and technical specifications for the MobiControl product line.
- Discovered and **resolved over 225 critical defects** and performance issues across product UI and dashboards.
- Lowered **SQL** database retrieval time by **27%** by optimizing legacy queries to clean, transform & aggregate data.
- Executed manual & automated regression tests within **Agile CI/CD pipeline**, reducing post-release bugs by 72%.

### Freelance Developer

July 2022 – Sept. 2023

*Developer @ Tuning Studios*

- Contracted to develop gameplay mechanics for a multiplayer sandbox game with over **6.3 million total visits**, using **Lua**, to ensure an immersive player experience.
- Implemented scripts to optimize server-client communication to improve game responsiveness on mobile devices.
- Integrated monetization such as game passes and in-game currency to **boost microtransactional revenue by 32%** (over \$8,590 USD generated in sales)

### Python Coding Instructor

July 2021 – Aug. 2021

*The STEAM Project*

*Richmond Hill, ON*

- Taught 20 summer camp students from grades 7-8 a creative curriculum centered on **Python** programming.
- Collaborated with co-instructors to create an educational and interactive coding curriculum on a weekly basis.
- Fostered engineering mindsets among students through daily coding challenges and projects.

## PROJECTS

**NBAction** | [Demo Video](#) | *Python, OpenCV, TensorFlow, PyTorch, CUDA*

Sept. 2023 – Dec. 2024

*Basketball Action Classifier*

- Developed and trained a deep-learning model capable of detecting basketball actions to analyze live NBA games.
- Optimized a live video processing pipeline using dynamic frame sampling to reduce overall image latency by **68%**.
- Performed model fine-tuning to achieve an overall detection rate of **92%** across all object classes.
- Authored an [IEEE-style academic paper](#) detailing my methodology and research results, pending peer review.

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C#, JavaScript, TypeScript, Java, SQL, Bash

**Libraries & Frameworks:** React, Vue.js, Flask, OpenCV, TensorFlow, .NET, PyTorch, Selenium, NumPy

**Developer Tools:** Git, Jira, Jenkins, Docker, Azure DevOps, GitHub, AWS, HTML, CSS