

# Jeremy Liu

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LinkedIn.com

GitHub.com

Website

## Education

### University of Toronto

Sept 2025 – May 2030

Toronto, ON

Bachelor of Applied Science in Computer Engineering + PEY Co-op

- **Relevant Coursework:** Data Structures and Algorithms, Computer Organization, Linear Algebra, Probability and Statistics, Software Design, Digital Systems, Programming with C
- **Robotics for Space Exploration Team Member:** Developed and tested ROS2 safety nodes that improved rover operation reliability as part of a design team.

### Milliken Mills High School

Sept 2021 – June 2025

Markham, ON

IB Programme

- **Relevant Coursework:** HL Chemistry, HL Econ, HL English, SL Maths AA, SL Physics, SL English

## Technical Skills

**Languages:** Python, Javascript, MATLAB, Typescript, HTML, CSS, Swift

**Libraries & Frameworks:** React, TailwindCSS, Bootstrap, Node.js, NumPy, Matplotlib, Tkinter

**Developer Tools:** Git, GitHub, VS Code, Cursor, Linux, Google Cloud Platform

## Projects

### binder. | TypeScript, React, Tailwind CSS, Python, Gemini API

Oct 2025

- Created a Tinder-inspired marketplace browser for Kijiji with a swipe-based React interface and real-time listing updates.
- Integrated a Python scraper for dynamic data collection and leveraged the Gemini API for AI-powered price evaluation.
- Built responsive, maintainable UI components and managed application state efficiently using TypeScript and TailwindCSS.

### stop! don't go on | Arduino, Python, React, OpenCV, Typescript

Nov 2025

- Used Arduino to spray water and email.js to email friends and family to incentivize users away from continuing bad habits.
- Integrated OpenCV with a python backend to the arduino so users could be tracked with precision
- Created a dynamic UI that allowed user input and real-time computer feedback using React, Vite, and Typescript

### ASCII Slot Machine | Python

Mar 2025

- Used python to calculate probabilities and returns based on pre-determined values for symbols.
- Applied object-oriented design principles for modular and reusable reward and probability-matching systems.

## Awards

### Faculty of Applied Science and Engineering Admission Scholarship | University of Toronto

2025

### Avogadro's Contest - Top 25 Scorers | University of Waterloo

2025

### OAPT Contest - Top 500 Scorers | University of Toronto

2025

### YorkU EUC Design Challenge -1st Place | York University

2024

## Experience

### CCU Receptionist

Feb 2024 – Aug 2025

Markham, ON

Markham Stouffville Hospital

- Provided customer service and prepared beverages in a fast-paced environment.
- Collaborated with team members to ensure efficient daily operations.

### Private Tutor

Sep 2023 – Present

Markham, ON

Math/Computer Science/Physics/Chemistry/English

- Assisted in training and mentoring youth athletes.
- Supported team organization and game-day preparation.