

Jeremy Liu

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Education

University of Toronto

Sept 2025 – May 2030

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

Toronto, ON

- **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.

Technical Skills

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

Libraries & Frameworks: React, TailwindCSS, Bootstrap, Beautiful Soup, 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 swipe-based website that browses second-hand marketplaces in a more intuitive and engaging way.
- Used Beautiful Soup to scrape for data collection in real-time and leveraged the Gemini AI API for price evaluation.
- Built responsive UI components using React, 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.

Experience

CCU Receptionist

Feb 2024 – Aug 2025

Markham Stouffville Hospital

Markham, ON

- Provided customer service and guided visitors in a fast-paced and stressful environment.
- Collaborated with team members to ensure efficient management of .
- Managed tasks to ensure efficient daily operations.

Private Tutor

Sep 2023 – Present

Math/Computer Science/Physics/Chemistry/English

Toronto, ON

- Helped 30+ students become more confident in subjects they struggled in.
- Promoted collaboration, engagement, and communication.
- Organized logistics for lessons, meetings, and feedback.

Model UN Vice President

Sep 2024 – Sep 2025

Milliken Mills High School

Markham, ON

- Coordinated debates and lessons to classes of 40+ students
- Resolved urgent conflict within dynamic and fast-paced environments.
- Planned and coordinated solutions to design problems within groups of 40+ people.

Notable Awards

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