

# Ethan Yang

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## Education

### University of Toronto

Expected May 2030

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

Toronto, ON

- **Relevant/Expected Coursework:** Data Structures and Algorithms, Computer Organization, Linear Algebra, Probability and Statistics, Software Design, Digital Systems

### University of Prince Edward Island

Jun 2024

*Shad Canada Program – STEAM & Entrepreneurship*

Charlottetown, PEI

- Collaborated with a team to develop innovative solutions to real-world problems through design thinking, entrepreneurship, and STEM-based workshops.
- Engaged in lectures and hands-on projects focused on leadership, sustainability, and technological innovation.

## Technical Skills

**Languages:** C++, Python, TypeScript, Java, HTML, CSS, JavaScript

**Libraries & Frameworks:** React, Tailwind CSS, Node.js, Flask, OpenCV, NumPy, Matplotlib

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

## Projects

### Stop! Don't Go On! | React, TypeScript, Python, Flask, OpenCV

Oct 2025

- GoOnHacks 2025 finalist
- Developed a computer vision accountability app that detects bad habits and intervenes with screen alerts, countdown timers, and math challenges.
- Integrated optional Arduino hardware with servo-controlled camera tracking and water spray deterrent for physical feedback.

### 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 Tailwind CSS.

### Stock Price Simulation and Risk Analysis | C++, Python, NumPy, Matplotlib

Sep 2025

- Built Monte Carlo simulations to model Geometric Brownian Motion and forecast stock price paths.
- Visualized simulation outputs and return distributions using Python libraries for analysis and reporting.

## Awards

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

2025

**DECA ICDC Qualifier | DECA**

2025

**Canadian Senior Mathematics Contest (CSMC) – Distinction | University of Waterloo**

2024

**Volleyball Canada Nationals – 2nd Place | Toronto Thunderbolts Volleyball Club**

2022

**Pascal Mathematics Contest – Honour Roll | University of Waterloo**

2022

## Experience

### Barista

Jul 2025 - Aug 2025

*Cotti Coffee*

Markham, ON

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

### Volleyball Coach

Sep 2021 – Aug 2025

*Toronto Thunderbolts Volleyball Club*

Markham, ON

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