

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:** Introduction to Computer Science, Calculus, 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.