

Ethan Yang

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Education

University of Toronto <i>Bachelor of Applied Science in Computer Engineering</i>	Expected May 2030 Toronto, ON
University of Prince Edward Island <i>Shad Canada Program - STEAM & Entrepreneurship</i>	Jun 2024 Charlottetown, PEI

• Relevant Coursework: Data Structures and Algorithms, Computer Organization, Linear Algebra, Probability and Statistics, Software Design, Digital Systems

• 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.

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.	
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.	
Bond Pricer C++	Sep 2025
• Implemented a C++ program to calculate bond prices, yields, and durations using discounted cash flow methods.	
• Applied object-oriented design principles for modular and reusable financial computations.	

Technical Skills

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

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

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

Awards

Faculty of Applied Science and Engineering Admission Scholarship University of Toronto	2025
DECA ICDC Qualifier DECA	2025
Honour Roll Milliken Mills High School	2022-2025
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

Cotti Coffee Barista	Jul 2025 - Aug 2025 Markham, ON
• Provided customer service and prepared beverages in a fast-paced environment.	
• Collaborated with team members to ensure efficient daily operations.	
Toronto Thunderbolts Volleyball Club Volleyball Coach	Sep 2021 – Aug 2025 Markham, ON
• Assisted in training and mentoring youth athletes.	
• Supported team organization and game-day preparation.	