Ethan Yang

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Education

University of Toronto   Expected May 2030
Bachelor of Applied Science in Computer Engineering   *Toronto, ON*
- **Relevant 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, TailwindCSS, Node.js, NumPy, Matplotlib
Developer Tools: Git, GitHub, VS Code, Visual Studio, 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 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.

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.

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

Cotti Coffee   Jul 2025 - Aug 2025
Barista   *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   Sep 2021 – Aug 2025
Volleyball Coach   *Markham, ON*
- Assisted in training and mentoring youth athletes.
- Supported team organization and game-day preparation.