

Edward Wu

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EDUCATION

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

Sept. 2022 - May 2027 (expected)

University of Toronto, Toronto, ON

- **90.3%** Cumulative Average, **3.87/4.0** GPA
- Awarded Dean's Honours List for Fall 2022, Winter 2023
- **Relevant Courses:** Computer Fundamentals (C), Programming Fundamentals (C++), Engineering Strategies and Practices, Digital Systems, Circuit Analysis, Calculus III, Linear Algebra

SKILLS

- **Programming:** C/C++, Java, Python, SQL, HTML, CSS, JavaScript, MongoDB
- **Libraries, Frameworks:** Django, React, NodeJS, Tailwind, Java Swing
- **Tools:** MS Office, Git, GitHub, Postman
- **Professional Skills:** Adaptability, Flexibility, Versatility, Time Management, Critical Thinking, Leadership

RELEVANT EXPERIENCE

Software Developer

Sept. 2022 - Present

SPARK Design Club, University of Toronto

- Programmed game logic and hardware-software interfaces in **C++** for a pattern memorization game built on a custom PCB and Arduino microprocessor
- Implemented a bit-masking algorithm to increase runtime and memory efficiency of game code by **77%** on average, allowing for an increase in game scope from 6x6 to 8x8
- Collaborated with a sub team of 3 within a **20+ member team** using **Git, GitHub and Notion**

Technical Member

Jan. 2023 - Apr. 2023

Engineering Strategies & Practices II, University of Toronto

- Researched, designed, and prototyped in a **team of 6** members to create a website and AI camera system for the City of Toronto's Salmon Run Event
- Developed a WCAG v2.1 complaint website using **HTML and CSS** with integrated object detection of a video feed in **Python** using **YOLO v4**
- Authored and presented formal Project Requirements and Conceptual Design Specification documents to outline project design and implementation, resulting in prototype approval

PROJECTS

Personal Website | <https://edwardwu.dev>

Aug. 2023

- Created a fully responsive, WCAG v2.1 compliant portfolio website using **React and JavaScript**
- Implemented UI/UX designs and patterns using ChakraUI and **CSS**
- Integrated custom React Hooks with Framer Motion to perform customized web animations
- Hosted the website using Github Pages under a custom domain and CDN

PaintBoard | Java App

Jun. 2022

- **Led a group of 4** to design, program, and test a collaborative drawing application in **Java**
- Utilized **Java Sockets** to develop a **Client-Server system** to transmit custom class objects over a LAN network, enabling the syncing of drawings on one shared environment
- Followed **OOP design** principles, including abstraction, polymorphism, and encapsulation to maintain data security between data objects

AWARDS

University of Toronto Scholars Award

Oct. 2022

- Awarded \$7500 for being 1 of approximately 700 secondary school students recognized as being U of T's outstanding students at admission