

Conrado Aguilar

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EDUCATION

Toronto Metropolitan University (TMU)

Toronto, ON

Bachelor of Engineering in Computer Engineering, September 2023 – Expected April 2027

- Third-year student specializing in hardware and digital systems along with software development.
- Relevant Courses: Advanced Algorithms, Java Object-Oriented Programming, Digital Circuits, Signals and Systems, Microprocessor Systems.

EXPERIENCE

Sports Instructor

Mississauga, ON

Lifetime Fitness - May 2024 - Present

- Coached youth programs using **structured lesson plans while prioritizing safety-first protocols**, resulting in improved engagement, confidence, and teamwork among 30+ children per session.
- Managed classroom behavior through **positive reinforcement and conflict-resolution techniques**, leading to a safe, inclusive environment for children of diverse abilities and backgrounds.

Metropolitan Undergraduate Engineering Society

Toronto, ON

Planning Committee Member September 2023 - May 2024

- Planned and set up large-scale MUES events using **team-based logistics and structured task lists**, resulting in entertainment events for hundreds of engineering students.
- Brainstormed event concepts and coordinated with other committees using **collaborative planning sessions** while remaining aware of budget complications.
- Supported the **Bug Push** charity event using **on-site coordination and volunteer teamwork**, resulting in a high-energy fundraiser that raises thousands of dollars annually for SickKids Hospital.

PROJECTS

Ticket Prices Web Scraper

Python | JavaScript | Flask | API | Automation | Vercel

- Built an automated ticket aggregation system **by scraping SeatGeek and Ticketmaster using Python**, resulting in a unified dataset that highlights the cheapest event prices across platforms.
- Designed a modular backend **using structured scraper classes and request parsing**, resulting in scalable data collection for concerts and sports events.
- Implemented scheduled scraping **using automation scripts**, resulting in up-to-date pricing without manual user input.
- Integrated a frontend interface using **JavaScript and HTML/CSS and Vercel for deployment** resulting in an accessible tool for comparing ticket prices in real time.

Restaurant Discovery App

React Native | Expo | TypeScript | Node.js | API | LLM

- Developing and finalizing a cross-platform mobile app using **React Native, Expo, and Expo Router**, enabling a swipe-based algorithm for restaurants powered by the user's real-time location.
- Implemented sign-up and gated sign-in flows using **TypeScript, JavaScript, and Node.js-backed logic**.
- Developed location-aware recommendations using **device geolocation and external APIs**, delivering nearby restaurants as interactive cards tailored to each user's.

Personal Portfolio Website

React | TypeScript | CSS | Vite | Node.js | Vercel

- Built a responsive personal portfolio website primarily using **React, CSS and TypeScript** enabling a professional platform that showcases my engineering projects, skills, and academic experience to recruiters.
- Designed a modular UI using **component-based architecture, props, and state**, allowing sections such as projects, contact, and about pages to scale cleanly as content grows.
- Deployed and maintained the site using **Vercel and Git-based workflows**, ensuring a continuously updated, in alignment with industry practices.

TECHNICAL SKILLS

Frameworks/ Languages: Python, Java, JavaFX, C/C++, JavaScript/TypeScript, React, React Native, Node.js, VHDL, and HTML.

Developer Tools: Git/Github, Docker, Quartus II, OpenAI API, Visual Studio Code, Cursor, Vercel, Replit, Claude, and Rork.

Certifications: Introduction to Artificial Intelligence (IBM).