Francis Madarang

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PROFILE

An ambitious computer scientist who thrives in fast-paced and competitive settings. Francis believes anything can be achieved through proper goal-setting, a cool head, and unwavering grit. When he is not programming, he enjoys reading books, cooking, and contemplating the bigger picture.

EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science (Co-op), GPA: 4.0   *Sept. 2023 – Present*
- Current Coursework: Object-Oriented Programming, Data Structures (Enriched), Digital Hardware
- A+ in Functional Programming, Algorithms and Abstraction, Linux & Software Engineering Tools with C/C++

University of Toronto (St. George)   Toronto, ON
Bachelor of Science in Computer Science (Specialist), GPA: 4.0   *Sept. 2022 – Present*
- Dr. James A. & Connie P. Dickson Scholarship In Science & Mathematics
- Reuben Wells Leonard Scholarship
- A+ in Linear Algebra, Calculus (Proofs), Multivariable Calculus (Proofs), Foundations of CS I & II
- Dean's List Scholar

SKILL SUMMARY

Team Player: worked with and managed others in large, fast-paced team projects.
Communication Skills: faced customers, students, and peers at various volunteering, teaching and showcase events.
Quick Learner: consistently successful and demonstrates excellence across intense settings.
Languages: C/C++, Java, Python, JavaScript (TypeScript), HTML/CSS
Frameworks/Tools: Django, React.js, Vite.js, ElectronJS, Jest, TailwindCSS, Git, AWS (EC2), Apache, UNIX, Figma
Libraries: OpenCV, NumPy, Tensorflow

PROJECTS

AIPlay4U | *C++, OpenCV, React.js, Vite.js, TailwindCSS*   Dec. 2023 – Present
- Created a scripting language for users to make scripts that automate tasks using computer vision.
- Built a "scratch clone" with ElectronJS, Vite.js, React.js and TailwindCSS and maintained it using Jest.
- Trained object detection cascades for common objects using OpenCV.

Vid2Notes | *React.js, TailwindCSS, Next.js, Django, Python*   Nov. 2023
- Led a team of 4 in creating a full stack application that summarizes YouTube videoes.
- Used generative AI to turn video summaries into flashcards.

Sinnoh Stores | *React.js, TailwindCSS, Next.js, Django*   Sept. 2023 – Oct. 2023
- Used Figma, React.js and TailwindCSS to design and create a mobile friendly, interactive user interface for users to browse through products
- Created a REST API that handles requests for retrieving and inserting data about products and carts.
- Implemented a secure session system to avoid compromising cart orders.

EXPERIENCE

Coding Instructor   July 2022 – Sept. 2022
Code Ninjas Richmond Hill   *Richmond Hill, ON*
- Taught classes of up to 20 children aged 5-14 how to program in Python, Java, Lua and Scratch
- Architected curricula based on the varying skill levels, increasing student and parent satisfaction by 25%

AWARDS

- University of Waterloo 2022 Canadian Team Math Contest - 3rd Place
- University of Waterloo 2022 Euclid Math Contest - Top 8%
- University of Waterloo 2022 Chem13 News Contest - Elemental Tile Achiever
- Highest Achiever Awards: Gr. 10-12 Computer Science, Gr. 12 Physics