Matthew Frieri

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EDUCATION

University of Toronto | *Annual GPA: 4.0 / 4.0*   Sep 2023 - April 2027
Computer Science Major and Data Science Specialist | Focus in Technology Leadership

EXPERIENCE

Web Developer Intern | *MultiCloud Decentralized Applications Inc.*   July 2024 - Present
- Designed and created **11 pages** of the company's website using **Next.js** and **Tailwind**, significantly enhancing development efficiency by implementing reusable components and a modular design approach.
- Implemented backend features including an automated email system and contact page using **SendGrid**'s API.
- Enhanced **SEO** and internal website performance using Google Lighthouse, realizing a **40% increase** in web crawler visibility, loading times, and accessibility.

Undergraduate Research Lead and Mentor | *Youreka Canada w/ University of Toronto*   Jan - May 2024
- Led a team of **4** junior researchers through the analysis of large datasets to reveal statistically significant trends.
- Applied linear regression techniques using **Python** and **R** to uncover trends in ADHD rates among children.
- Mentored junior researchers and encouraged interdisciplinary collaboration, creating a dynamic and innovative research environment that significantly improved research quality and team performance.

Coding Instructor | *St. Veronica Elementary School*   Sept 2022 - June 2023
- Led an after-school class using Scratch to teach coding basics, tailoring lessons to engage those at all skill levels.
- Provided guidance and one-on-one feedback to **over 40 students**, improving their individual learning outcomes.

PROJECTS

Cash App - Exposing Bias in Fraud Detection | *React, Tailwind, Java, Tensorflow*   Sept - Dec 2024
- Working with a team of 5 in collaboration with Cash App to develop a dashboard that reveals bias in their AI fraud detection system, identifying disproportionate targeting through detailed, **interpretable visualizations.**
- Training a **custom AI model** to predict the impact of removing specific biases from Cash App's fraud detection system, estimating a **20% reduction in false positives** for underrepresented user groups.

City of Vaughan - Time Management Solution | *Python, Tkinter*   May - Aug 2024
- Engaged with the City's CIO, to build a time management solution for **over 25 employees** of the City of Vaughan's Infrastructure Planning and Corporate Asset Management Department.
- Implemented user-friendly interfaces and **over 8 requested features** to streamline time management and staff scheduling, ensuring accurate data entry and efficient planning for the department's employees.

CookClever App (Hackathon) | *JavaScript, React, Python, Flask, MongoDB, Google AI Studio*   May 2024
- During HawkHacks 2024, my team and I developed an interactive cooking app incorporating **AI image analysis** and **MongoDB** authentication systems, offering a fun, new, and innovative cooking experience.
- Delivered a cohesive and user-friendly application, employing prompt engineering techniques to refine AI image analysis, ensuring accurate evaluation and feedback on user-submitted images based on predefined criteria.

PixelPunch Game (Personal) | *Python, OpenCV*   May 2022
- Developed an interactive boxing game using a camera and **real-time feature recognition** to track and analyze players' movements, delivering a highly responsive experience with **under 20ms of latency**.

SKILLS

Programming Languages: JavaScript, TypeScript, HTML, CSS, Python, R, Java, C#, SQL, C, Assembly
Technologies / Frameworks: Git, React, NextJS, Tailwind, Flask, OpenCV, Pandas, MongoDB, REST API, AWS, Excel