Yang Xu

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EXPERIENCE

Engineering Intern, Power & Performance Analysis— *[AMD](AMD)*
May 2022 - Aug. 2022

- Maintained and developed new Python-based benchmark automation scripts and data analysis tools (like data parsers and data visualization scripts) to streamline experimentation and data analysis work.
- Developed a 90% accurate machine learning model that dynamically processes experiment data, reducing the bog of trivial work and enabling new tools for the future.
- Conducted experiments aimed at exploring ideas for next-gen Smart Shift features to improve performance and power allocation in upcoming AMD powered laptops.

Software Engineering Intern, Web Development — *TechForGood Inc.*
June 2021 - Aug. 2021

- Worked with a team to develop the frontend for an education-focused website from scratch using node.JS, HTML/CSS, react, bootstrap, and jQuery.
- Coordinated work remotely with a small team of developers to deliver high quality work on time.

Swimming Instructor — *City of Richmond Hill*
Sept. 2019 - Nov. 2019

- Led swimming classes ranging from 1-10 students across all ages.
- Communicated clearly with supervisors and guardians to ensure safety.

EDUCATION

Engineering Science, BASc — *University of Toronto (3.98/4.0 GPA)*   SEPT 2021 - MAY 2026
- Intended major in robotics engineering with a minor in AI

PROJECTS

Personal Website - github
- Developed a personal website hosted on Google Firebase using React, JavaScript, and HTML/CSS.

CheckInWithMe Bot - github
- Worked with a team to develop a Discord bot aimed at improving mental health using technologies like IBM Watson's tone analyzer and Google Cloud's natural language processing.
- Won best use of Linode Cloud and domain.com in Mental Health Hacks 2021.

SKILLS AND LANGUAGES

Technical: Python, PyTorch, Python data science libraries (Numpy, Pandas, MatPlotLib), MatLab, C, JS, HTML/CSS, web dev. tools (React, Bootstrap, etc.), Excel, Git
Design: LaTeX, Photoshop
Languages: English, French, Mandarin