

Max Xu

+1 (647) 513-8665 hmaxxu@gmail.com linkedin.com/in/hmaxxu https://hxu64.github.io

Education

University of Toronto

Honours Bachelor of Science in Computer Science

Sept 2024 – May 2028

Experience

FJudge // C/C++, Python, Flask, Git, HTML/CSS

July 2024

- Developed a comprehensive full-stack programming competition judge using Python, C++, and Flask.
- Implemented a web-based interface with HTML/CSS to enable contestants to submit and test code.
- Utilized multithreading and async to manage time-outs and manage memory leaks in submitted code.
- Integrated problem curation and complexity analysis features to rigorously evaluate submissions.
- Crafted over 20 algorithmically challenging tasks and supervised more than 5 contests.

LuaBot // C/C++, Python, SQL

March 2024

- Created a virtual currency simulation for the illustration of mathematical and economic concepts.
- Maintained and extended a multi-threaded application, and applied asyncio to create concurrent code.
- Organized multiple rounds of closed and open beta testing, with over **100** participants in the final round.

Additional Experience

YouTube Partner

Remote

YouTube

Jan. 2024 – Present

- Created and established a brand within the Google ecosystem, reaching **7000+** hours of watch-time.
- Executed advanced statistical analysis on aggregated data utilizing Google Analytics and YouTube Studio, employing a time series forecasting model in TensorFlow to predict emerging trends and viewer behavior.
- Utilized advanced natural language processing techniques for sentiment analysis on individual videos, extracting valuable insights from viewer feedback to inform content strategy.
- Implemented effective SEO strategies across websites, significantly enhancing viewer click-through rates, retention and engagement by **400%**.
- Managed advertiser-channel relations as well as revenue generation through AdSense.

SHAD Fellow

Toronto, ON

SHAD Canada

June 2023 – August 2023

- Spearheaded a team focused on launching startups to champion sustainable initiatives.
- Facilitated and guided insightful discussions on the future of the automotive industry.
- Organized and hosted a panel of successful startup-founders to discuss startup strategy.
- Crafted and presented a compelling startup concept and business model to a panel of judges, achieving **2nd**.

Achievements

- Canadian Computing Competition Senior Division Certificate of Distinction (2023)
Largest programming competition in all of Canada, hosted by the University of Waterloo
- Fermat and Hypatia Contest Certificate of Distinction and School Champion
- Canadian Senior Math Competition School Champion

Technologies

Languages: C/C++, Python, Rust, Java, SQL, Javascript, HTML/CSS, Objective-C, NASM x86

Frameworks: Node.js, React, Next.js, Django, MongoDB, Flask, Tailwind CSS

Libraries: Boost, Pandas, Tensorflow, PyTorch, sklearn, Qt, SciPy, NumPy, OpenGL