

(267)-401-2843
L.tsai@mail.utoronto.ca

Lawrence Tsai

www.linkedin.com/in/lawtsai/
<https://github.com/Lt77777>
<https://lawrencetsai.me>

Dear Hiring Manager:

I am beyond excited about applying to work starting summer of 2023! I am currently a third-year pursuing a Specialist in Mathematics with Physics applications with minors in Computer Science and Chemistry at the University of Toronto-Trinity College. In the summer of 2022, I had the opportunity to work as a Software Engineer at Promise Robotics for 4 months in utilizing robotics for automated construction. I utilized **Python, Django, Docker, Machine Learning, and applied Physics** as the top intern contributor. I had the opportunity to work with programming the robots directly as well as full stack development and code reviews with the databases and security of our API. Besides that, I am a senior strategy engineer for the Blue Sky Solar Racing Team at the University of Toronto. I conduct solar cell research (optics and bifacial cells), fabricate, and create simulations (**Matlab, Python, Parallel Computing & CAD**) to optimize the performance and design of a solar car. I am also on the optics team of the UofT Aerospace Team Space System Division where I do numerical analysis (**Python**) and optical research (grisms and holographic gratings) of our satellite payload. I am also leading a team of 2 to design tests for our optical bench prototype which is going to be part of a hyperspectral imaging CubeSat to measure anthropogenic gas emissions across Ontario, Canada in 2024. Some projects of mine include a webcam diagnostic tool in coordination with Dr. Etienne Benard-Seguin and Jeremy Moreau (University of Calgary) to diagnose strabismus using OpenCV and mediapipe. Another project of mine that I developed was a friend-making webapp called Amigos using **Java, Spring Framework, Figma, Thymeleaf, Javascript, CSS, and HTML** and deployed on **Azure**. I have some skills but more importantly, have an aptitude for learning that I would like to demonstrate to you. I am a well-rounded person that speaks 4 languages, plays 3 instruments, and played 2 varsity sports (wrestling and track).

Overall, I would like to state that:

-I have the **Skills**: I am a critical thinker and eager learner with mastery in **Python, Java, and MATLAB**. I am also currently working towards mastering **C and C++** and am working towards a Self Driving Car 4-Course Specialization through the University of Toronto.

-I have the **Passion**: I spend the bulk of my free time curiously learning on the internet and talking to friends in the field. All part of the fun!

-I have the **Character**: I am a lighthearted guy. I find pleasure in the connections and conversations in life :)

Sincerely
Lawrence (Larry) Tsai
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