

MATTHEW TAYLOR

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OBJECTIVE

I am a software developer with coding experience, looking for staff engineering and research internship opportunities. I aim to gain hands-on experience in the research and engineering process, enhance my technical skills, and contribute to the development and maintenance of software solutions.

EDUCATION

Honours Bachelor of Science, University of Toronto
Computer Science Specialist

Graduating 2026

Relevant Coursework

Introduction to Artificial Intelligence, Introduction to Information Security, Principles of Programming Languages, Data Structures and Analysis, Computational Complexity and Computability, Theory of Computation, Systems programming and tools, and Software Design, Operating Systems.

SKILLS

Technical Skills

Programming, Source control, Debugging, Mathematics, and Algorithms.

Proficient in developing Helm charts, Microservices and working with USD.

Programming Languages

Python, C / C++, JavaScript, Java , C#, Bash

PROJECTS

Generative-Image-Diffusion. Animal image generation from a small dataset using a conditional diffusion model. ([Source code](#))

gRPC-Client-Benchmark. Measuring the efficiency and feasibility of streaming images to Python clients using gRPC with different bindings. ([Source code](#))

Forest Data Set Visualization. Built a 3D visualization tool to analyze forest datasets. ([Source code](#))

TinySim. Library for robotics and machine learning simulation environments ([Source code](#))

Fashion Segmentation model. Segment fashion images and label pixels using convolutional neural networks and superpixels. ([Source code](#))

Personal Coding Blog. Built a full-stack blog website to post code snippets using Python, Flask, and SQLite. Code snippets are formatted and posts can be made from the Web by authenticated users. ([See what I'm coding](#))

PAST WORK EXPERIENCE

- Software Intern - Omniverse, NVIDIA - (May 2025 - September 2025)
- Software Intern - Robotics Simulation, NVIDIA - (May 2024 - May 2025)
- Lifeguard at the University of Toronto - Recreation, Athletics and Wellness Centre.
- Senior Lifeguard, Counselor, and Boat Operator at the Canadian National Institute for the Blind Lake Joseph Center.