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   Graduating 2026
Computer Science Specialist

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.
Programming Languages	Python, C / C++, JavaScript, Java , C#, Bash

PROJECTS

Generative-Animals. Animal image generation from a small dataset using a conditional diffusion model. (Check out the code here)

Grpc-Client-Benchmark. Measuring the efficiency and feasibility of streaming images to Python clients using Grpc. (Check out the code here)

Forest Data Set Visualization. Built a 3D forest visualization to analyze forest metadata. The program parses the data set and spawns 3D models. The viewer has a simple camera controller and renders different tree models using Java. (Check out the code here)

Queue Library for Python. Packaged a library to improve the built-in queue speeds of the Python programming language. Created tests and benchmarking for different approaches to measure performance improvements. (Python packaging index site)

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
- Software Intern - Robotics Simulation, NVIDIA
- 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.
- Technical Support for Structural Focus Engineering.
- Swim Instructor at Making Waves Swim School.