MATTHEW TAYLOR

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OBJECTIVE

I am a software developer with coding experience, who is seeking internship opportunities. I look to gain hands-on experience in the software development process, improve on technical skills, and contribute to developing and maintaining software solutions.

EDUCATION

Honours Bachelor of Science, University of Toronto   Graduating 2025
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

XML to PyDict. Built C++ Python bindings to deserialize XML documents into Python dictionaries using finite-state machines. [(Python packaging index site)]

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 into a scene 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 benchmarked 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)]

Multiplayer Matching Game. Built a cross-platform turn-based matching tiles game. The game gives real-time feedback on individual moves using JavaScript, React-Native, and Firebase. [(Check out the code here)]

PAST WORK EXPERIENCE

- 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.

- Swim Instructor at Making Waves Swim School.

- Technical Support for Structural Focus Engineering.