

# Matthew Chan

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## EDUCATION

### University of Toronto

Expected April 2025

*Computer Science Specialist and Statistics Minor*

Toronto, ON

- **Coursework:** Software Design, Web Development, Data Structures and Algorithms, Artificial Intelligence, Operating Systems and Databases
- Dean's List 2020-2023

## EXPERIENCE

### Sony Interactive Entertainment

May 2023 – Present

*Software Developer in Test Intern*

Waterloo, ON

- Added a new stage to existing **CI/CD** infrastructure to run automated tests automatically using **pytest**
- Managed the deployment and testing of client software releases
- Improved API usage via automated code generation using OpenAPI specs in a **Python library**
- Designed test plans and wrote automated tests for new features using **Selenium**

### STEM Camp

June – Aug. 2022

*Coding Instructor/Counsellor*

Hamilton, ON

- Teaching the basics of coding and inquiry-based learning using **Scratch**
- Implemented a **learning game** using **Python** and **Microbit**

## ACHIEVEMENTS

### Eagle Scout

May 2012 – July 2018

*Scouts BSA Troop 51*

Herndon, VA

- Designed, planned and organized a community service project to improve local trails leading 25+ volunteers
- Implemented a learning game using **Python** and **Microbit**

## PROJECTS

### Restify Short Term Rental Web Application

Jan. 2023 – Apr. 2023

*Full-Stack Web Developer*

- Developed a full-stack short term lodging platform using **React, Django, Bootstrap, and Heroku**
- Translated stakeholder needs and user stories into technical requirements for the application

### Klotski Search Algorithm AI

Sept. – Oct. 2022

*AI Developer*

- Implemented multiple **search algorithms** using **Python** to solve the game Klotski in the optimal number of moves
- Analyzed performance and running time of the **search algorithms** to determine the most optimal algorithm

### UofT Automation | Selenium

Sept. – Dec. 2022

*Full-Stack Web Developer*

- Created a **Python** script using **Selenium** to automate the weekly registration of UofT extra-curricular programs
- Designed and implemented a **Python** script to automatically fill out daily required COVID symptom information

### Vaccination Booking System

Sept. – Dec. 2021

*Full-Stack Developer*

- Designed, debugged, and documented back-end functionality in **Java** for a vaccination scheduling application
- Implemented an **SQL** database and a front end client side interface using **Java**

## TOOLBOX

**Programming:** JavaScript, Java, HTML/CSS, Python, C, React, Django, Groovy, Version Control (Git), SQL

**Tools:** PostMan, Jenkins, Jira, Agile, Docusaurus, Amazon Web Services, qTest