

# TANISH ROY

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## Education

### University of Toronto

Sep. 2022 – May 2026

Bachelor of Science in Computer Science GPA: 3.93/4.0

Mississauga, ON

**Relevant course work:** Foundations of Computer Science I, Intro to Mathematical Proofs, Calc I

**Anticipated course work (Winter 2023):** Foundations of Computer Science II, Introduction to Linear Algebra with Proofs, Introduction to Statistics, Calc I cont.

## Technical Skills

**Languages:** Python, PHP, C, HTML/CSS, JavaScript, SQL

**Developer Tools:** Git, VS Code

**Libraries/Frameworks:** Robot Framework, Bootstrap, Streamlit, Matplotlib, NumPy, Plotly, Pandas, Tensorflow, ScikitLearn, Beautiful Soup, Selenium

## Experience

### Ciena

Sep 2021 – Feb 2022

Intern

Ottawa, ON

- Worked on building testing stations, assembling electronic equipment, and programming hardware boards by using internal applications/tools.
- Collaborated with team members on various internal projects and developed professional communication skills

### Virtamove

Feb 2021 – Jul 2021

Automated Testing Developer Intern

Ottawa, ON

- Developed and implemented automated test cases for services based on lists of given issues
- Utilized Robot Framework along with Selenium in Python to automate 20+ test cases
- Collaborated with team members to solve issues and debug problems as well as use version control systems such as Git to push changes.

## Projects

### Digit Classifier | Python, Tensorflow, Matplotlib, Numpy, Gradio

December 2022

- Created a model that can classify digits from 0 to 9, which was trained on the MNIST dataset of handwritten digits.
- Model achieved 98.2% accuracy, using the adam optimizer, and sparse categorical crossentropy loss function.
- Model was deployed locally using the gradio framework, in order to tie a user interface in with the model, allowing users to draw numbers on a sketch-pad for prediction purposes
- Client side input from the sketchpad went through normalization, and image reshaping before it was fed into the model, which then gave predicted number drawn output.

### Password Manager System | HTML/CSS, Bootstrap, JS, AJAX, PHP, MySQL

Sept 2022

- Created and designed a password management system, to store and manage online credentials - requiring a single master key for account access.
- The password manager has a fully integrated login/logout/account creation system that is secure, storing login passwords (master key) in a hashed format in the MySQL database.
- Users' online credentials stored in the database are end-to-end encrypted, where the encryption key is an unhashed version of the master key

### Covid-19 Dashboard | Python, Pandas, Streamlit, Requests

Mar 28 2021

- Created an Ontario Covid-19 Dashboard displaying live simplified Covid-19 statistics (Ontario Website was very cluttered, and had many hard-to-read statistics)
- Used the requests module to pull data from the Ontario catalogue dataset, utilizing pandas to organize and deal with the respective .csv files pulled
- Created a web app utilizing the streamlit library, allowing users to see clean graphical interfaces of various statistics pulled using requests/pandas