

# Syed Taha Ali

☎ 647-916-0298 | ✉ taha47ali2001@gmail.com | 🌐 SyedTahaA | 📍 Canadian Citizen

## EDUCATION

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### University of Toronto

Aug. 2019 – Present

*Bachelor of Computer Science Specialist and Math Minor*

- **CGPA:** 3.47, **Average:** 85%
- **Dean's List**
- **Coursework:** Data Structures and Analysis, Software Tools and Systems Programming, Operating Systems, Algorithm Design and Analysis
- **Course projects:** Huffman Tree File Compressor and Decompressor in Python, File System in C, Transit System Interface in Java, Doodle Jump in Assembly

#### Awards

- \* University Of Toronto Scholar's Scholarship - \$7,500
- \* University of Toronto Entrance Awards - \$3,000

### Gordon Graydon Secondary School

Aug. 2015 – June. 2019

*International Buisness and Technology Program*

Mississauga, CA

- **Final average:** 97%
- IBT Diploma

## SKILLS

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**Languages :** Python, Java, C, MIPS Assembly, Racket, Haskell, HTML/CSS, Urdu

**Developer Tools :** Git, Pip, Anaconda, Visual Studio, Pycharm, Jupyter Notebook, DrRacket, IDLE, MARS Runtime

**Frameworks and Libraries :** Pandas, Numpy, Matplotlib, Flask, Voila, Heroku, Tensorflow, Sklearn, GPT-3, Codex

## DEVELOPMENT EXPERIENCE

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### Path Finding on Map Visualizer

- Designed a path finding algorithm visualizer that maps paths on GPS like map
- Allows users to compare efficiency and results of the different algorithms
- Created using python interface libraries like ipyleaflet and ipywidget
- Deployed as a web app using Voila and Jupyter Notebook
- Uses OSMNX and openstreetmaps API to get map data

### Sports Data Visualizations

- Designed visualizations of sports statistics to analyze and compare players and teams
- Matplotlib, Pandas, BS4 to collect data and create visualizations, and graphics on Camtasia Video Editor
- Shared and Monetized visualizations on Social Media; accumulated over **2.5+ Million Views** on YouTube ; accumulated over **5+ million impressions** on Twitter
- Partnered with popular media brands; SportsBible and Sporf
- Created a FLASK web app with a partner to allow fans to create similar visualizations
- Highlights: EPL Goals Comparison at the same age, Liverpool Season Review, NBA Points per Game Comparison

## EXTRACURRICULAR

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### Clarkson Community Centre

*Event Planner*

- Worked with a group of student volunteers to plan events in the community for the youth
- Organized events that had 100+ attendees