

# Taha Ali

✉ taha47ali2001@gmail.com | 🌐 SyedTahaA | 🌐 Syed Taha Ali

## EDUCATION

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### University of Toronto

Aug. 2019 – Present

*Bachelor of Computer Science and Minor in Math*

- **CGPA:** 3.5/4.0, **Average:** 85%
- **Dean's List**
- **Coursework:** Data Structures and Analysis, Software Tools and Systems Programming, Operating Systems, Algorithm Design and Analysis
- **Course projects:** File Compression/Decompression via Huffman Coding 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

## SKILLS

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

**Developer Tools :** Git, Visual Studio, Pycharm, Jupyter Notebook, Eclipse IDE, DrRacket, IDLE, MARS MIPS Assembler

**Frameworks and Libraries :** Pandas, 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 using a variety of algorithms 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
- Pandas, and requests to scrape, collect, and organize data
- Plotly, other libraries, and online tools used to create visualizations with further editing 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](#)
- Videos showcased on; [SportsBible](#) and [Sporf](#)
- Developed FLASK web app with a co-contributor 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

*Volunteer*

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