Utsav Shinghal

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Driven computer science student interested in Software Development, Quantitative Finance and Artificial Intelligence

EDUCATION

University of Toronto

*Bachelor of Science in Computer Science and Mathematics **(3.93/4.00)***   *September 2019 - April 2023*

- **1/25** students selected for the **Technology Leadership Initiative**, a program that offers industry integrated learning and leadership training for high-achieving computer science students.
- **Course Developer** (Foundations of Computer Science I/II)
- **Teaching Assistant** (Calculus I/II)

SKILLS AND INTERESTS

Programming Languages: Python, C, Shell, JavaScript, Java, Swift, Q, HTML, CSS, R, LaTeX
Libraries & Tools: Numpy/Pandas, Streamlit, Django, Flask, GraphQL, ReactJS, Git, Jira, Bamboo, Slurm
Languages: English (fluent), Hindi (fluent), Spanish (intermediate), Chinese (novice)
Interests: Chess, Poker, Scuba Diving, Guitar, Soccer/Tennis, Formula 1

WORK EXPERIENCE

Squarepoint Capital

Software Engineer Intern   *May 2021 − August 2021*

- Improved back-end memory efficiency by over 40% by compressing datatypes in **Pandas**' dataframes and splicing **Slurm** jobs allowing over 20 quantitative researchers to use larger datasets for analysis.
- Created a full-stack internal application to monitor machine learning runs for researchers using **Python** and **Streamlit**.
- Made key enhancements to quantitative tools (alpha testing, data analysis etc) created for researchers using **Streamlit** improving accessibility, efficiency and reliability and deployed these changes internally.

Shopmatic

Software Engineer Intern   *August 2020 − October 2020*

- Increased customer checkout efficiency by **15%** by integrating their checkout form with the Google Maps API *react-geosuggest* for auto-filling shipping address / location.
- Expanded capabilities in the front-end making their interface more user-friendly using **React** and **Redux**.

PROJECTS

Teacher's Portal | *Python, Django, React, MongoDB, API's, GraphQL*   *View on GitHub →*
- Developed a **full-stack** web application using Django serving a GraphQL API with React as the frontend.
- Created this project in a team of 5 for the company **Hypatia** using their Check-Math API.
- Created models and schema in the back end, as well as statistics gathering functions from the API.
- Displayed informative statistics in the front-end using the React library Victory.

TickerTrakr | *Python, Flask, HTML, CSS, JavaScript, API's*   *View on GitHub →*
- **Winner** for **'Best Data Visualization'** at **Hacklytics**, Georgia Tech's Data Science Hackathon.
- Developed a full-stack application within 36 hours that uses the **Twitter-API, Reddit-API** and **Finnhub-API** to see how many times stock tickers are being mentioned on social media platforms, allowing users to make informed investing decisions.

Tennis Analysis [Research] | *Python, Selenium, Statistics, Mathematics*   *View on GitHub →*
- *To what extent does the deuce scoring system in tennis benefit the better player, and by how much? (5701 words)*

LEADERSHIP

Director of Internal Affairs | *Computer Science Student Union*   *September 2020 − Present*
- Elected Director of Internal Affairs by students in Computer Science at UofT.
- Planned a unique and innovative freshman student orientation during COVID19 for **200** first-year students.
- Co-leading a **6 million dollar** advocacy initiative for equitable tuition fees for CS students at UofT

First Year Representative | *Computer Science Student Union*   *August 2019 − June 2020*
- Responsible for representing the concerns of the first year class to the CS Department, and planning academic, social and professional events.
- Organised and ran a first-year study session for **50** students before final exams.