Utsav Shinghal

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Driven computer science student interested in Data Science, Quantitative Finance and Software Development

EDUCATION

University of Toronto

Bachelor of Science in Computer Science and Mathematics (3.93/4.00)

Sept. 2019 - May 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.

SKILLS AND INTERESTS

Programming Languages: Python, C, Bash, Shell, Java, JavaScript, Swift, HTML, CSS, R, LaTeX

Libraries & Tools: Django, Flask, GraphQL, ReactJS, Git, Jira, Jupyter, Numpy/Pandas, Slurm, Streamlit

Languages: English (fluent), Hindi (fluent), Spanish (intermediate), Chinese (novice)

Interests: Chess, Poker, Scuba Diving, Guitar, Soccer/Tennis, Formula 1

Work Experience

Squarepoint Capital

 $Quantitative\ Developer\ Intern$

May 2021 - August 2021

- Improved back-end memory efficiency by 40% by compressing datatypes in **Pandas**' dataframes and splitting up **Slurm** jobs allowing over 20 researchers to use larger datasets for analysis.
- Made key enhancements to quantitative tools (alpha capture, data analysis etc) created for researchers using **Streamlit** improving accessibility, efficiency and reliability.

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**.

University of Toronto

Course Developer

September 2020 - March 2021

- Developed tests, worksheets and programming assignments for two new Computer Science courses offered at UofT under professors David Liu and Mario Badr.
- Designed challenging questions in **Python** with solutions for testing key concepts such as Number Theory, Runtime Analysis, Object Oriented Design, Recursion, Data Structures.

Projects

Teacher's Portal | Python, Django, React, MongoDB, API's, GraphQL

 $View\ on\ GitHub \rightarrow$

- 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

 $View\ on\ GitHub \rightarrow$

- 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

 $View\ on\ GitHub \rightarrow$

• To what extent does the deuce scoring system in tennis benefit the better player, and by how much? (5701 words)

LEADERSHIP

${\bf Director\ of\ Internal\ Affairs}\ |\ {\it Computer\ Science\ Student\ Union}$

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.