

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.

Sept. 2019 – May 2023

- GPA: 3.86/4.00
- **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, Java, JavaScript, Swift, HTML, CSS, R

Technical: Django, GraphQL, ReactJS, Git/Github/GitLab, Jira, Jupyter, Numpy/Pandas (IPR)

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

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

EXPERIENCE

Course Developer

University of Toronto

September 2020 – Present

- Developing tests, worksheets and 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.

Software Engineer Intern

Shopmatic [Singapore]

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 while quickly learning and utilizing React and Redux.
- Participated in weekly Scrum meetings for Agile development.

PROJECTS

Teacher's Portal | *Python, Django, React, MongoDB, AWS, 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 statistics in the front-end using the React library Victory.

When2Interview | *Python, Selenium*

View on GitHub →

- Increased interview-planning efficiency for the Computer Science Student Union (CSSU) by **85%** using Selenium to scrape data from **when2meet.com**.
- Utilized Object-Oriented Programming principles to schedule interviews based on availability of candidates and executives.
- Optimizing the algorithm so it schedules a consistent # of interviews for each executive using Priority Queues.

Tennis Analysis [Research] | *Python, Selenium, Statistics*

View on GitHub →

- *"Does the Deuce Scoring System in Tennis benefit the better player, and by how much?" (5701 words)*
- Solved using combinatorics, probability distributions and infinite geometric summations.

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.
- Constantly communicated with executives in the Department of Computer Science, advocating on behalf of the student body.

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 before final exams.