

# Utsav Shinghal

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

## EDUCATION

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### University of Toronto

*Bachelor of Science in Computer Science and Mathematics.*

*Sept. 2019 – May 2022*

- GPA: 3.95/4.00
- **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

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**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

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### 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

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**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

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**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 C.S 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 before final exams.