

# Samyak Mehta

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## EDUCATION

### University of Toronto

Honors Bachelor of Science, Computer Science Co-op

Specialization in **Software Engineering** and major in **Statistics**

Named on Deans List of Academic Excellence (Nov 2019, Sept 2020)

September 2019 - Present

CGPA: **3.73** / 4.0

## SKILLS

**Languages:** Python | Java | C | HTML/CSS | JavaScript (TypeScript, JSON) | Shell Scripting

**technology and tools:** Angular | React JS | Figma | Jira | GitHub / Git | SVN | Spring boot | Mongo DB | Neo4j | Pygame | PyCharm

**Concepts:** Rest APIs | Agile methods (Scrum, Test Driven Development) | Version control | Maven

## PROJECTS

### UImpactify ([Website](#), [GitHub](#))

**Angular / MongoDB / Jira / Agile / Express / Node**

Sept 2020 – Dec 2020

- Worked alongside 7 group members following Agile Scrum over 4 sprints to develop an online learning platform specializing in education for the social purpose sector
- Utilized tools such as the Jira board and Git to maintain organized outline of tasks
- Held meetings for daily stand-ups, project refinements, and updating the Software Architecture Design
- Various functionalities including creating courses, assessments, uploading lectures and files using Mongoose, Multer, MongoDB, and GridFS

### Spotify API Clone ([GitHub](#))

**Java / Spring Boot / MongoDB / Neo4j**

Sept 2020 – Dec 2020

- Worked in a group of 2 to implement a REST API in Java Spring Boot using microservices to connect databases
- **Functionalities:** favouriting and unfavouriting a song, creating a playlist, following and un-following other users and querying songs from followers

### Connect Four ([GitHub](#))

**Java / Java Swing / Window builder**

Aug 2020 – October 2020

- Created an interactive GUI using Java Swing and WindowBuilder with player vs player and player vs AI compatibility
- Effectively implemented the minimax algorithm to mimic the various difficulties offered to users playing alone
- Performed Alpha-beta pruning to significantly increase the efficiency and speed allowing for easier gameplay

### Mock Linux Shell ([GitHub](#))

**Java / Agile**

June 2020 – August 2020

- Worked in a group of 3 to create a mock Linux shell that mimics the functionality of core bash commands alongside a mock filesystem
- Used the Scrum agile software design process to ensure the completion of the project with minimal complications
- Used various software design patterns to complete the project with an effective coding design open to future expandability
- Performed J-Unit testing to verify the efficiency and consistency of our code alongside edge cases

## EXPERIENCE

### Academic Representative

Sept 2020 - Present

AMACSS (The Association of Mathematical And Computer Science Students), Toronto, ON

- Holding regular weekly office hours for first year students to ask for assistance regarding course material
- Organizing and conducting [seminars](#) prior to midterm and final exams for first year courses
- Communicating with designated team to help provide effective planning and teaching strategies

### Camp Counsellor

June 2019 – Aug 2019

YMCA, Toronto, ON

- Taught campers a range of outdoor activities and ensured recreational equipment was used, secured and stored safely
- Took attendance alongside planning and overseeing camper activities throughout the day up till 'After Care' child pickup
- Ensured camper safety, monitored their activities and provided supervision during meals