

# Satwik Singh

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## Education

### University of Illinois at Urbana Champaign

Urbana, IL

B.S. IN STATISTICS AND COMPUTER SCIENCE

Dec 2020 (Expected)

- 3.84 GPA
- Dean's List Fall 2017

## Frameworks & Languages

**Skilled**, Python, C++, Java, HTML5, CSS3

**Comfortable**, Javascript, NodeJS, Numpy, Pandas, R programming, SQL

**Acquainted**, Firebase, Django, MongoDB,  $\text{\LaTeX}$

## Experience

### National Center for Supercomputing Applications (NCSA)

Urbana, IL

UNDERGRADUATE RESEARCHER (PROF. MICHAEL MILLER)

May. 2018 - July. 2018

- Worked on a speech to text auto captioning service and classifiers using open source captioning APIs and machine learning.
- This project researches frameworks and workflows for speech-to-text recognition in order to facilitate live auto captioning and creation of standard caption files for use in live events and video editing, utilizing and enhancing speech-to-text HPC/cloud services and seeks to advance the state of the art in speech-to-text recognition.

### Undergraduate Course Assistant

Urbana, IL

COURSE ASSISTANT FOR CS 125 SPRING 2018

Jan. 2018 - May. 2018

- Assisted students in labs about Introductory computer science concepts, Object Oriented Programming (Java), basic data structures and Recursion.
- Was involved in office hours where I helped students with weekly homework assignments.

## Leadership Positions

### HackIllinois

Urbana, IL

EXPERIENCE STAFF

Sep. 2017- current

- Worked in planning out the hackers' experience at the event.
- Determining the criteria for accepting hackers in the event. Worked with mentors and sponsors to organize workshops.
- Planning the layout of all the events and workshops as well as planning out logistics of the event.

### Reflections | Projections

Urbana, IL

WEBSITE STAFF

Jan. 2018 - current

- On the website development team for the largest student run technology conference in the Midwest.
- Worked with a team on building the website for mentors and the landing page for students.

### Sail CS@Illinois

Urbana, IL

TEACHER

April 2018

- One the teachers for the annual event which aims to teach Computer Science Courses to High School Students for getting them involved in CS.
- Taught students basics of Recursion, Memoization, Graph-Traversal and Searching algorithms in the course "Recursion for dummies"

## Projects

### Partial

Urbana, IL

CHROME EXTENSION FOR DETECTING BIAS IN WRITTEN MEDIA

Sep. 2017

- Building a Chrome extension using open source Python natural language processing libraries and APIs (Currently using Watson and Vader apis, but we want to train our own model for future uses) to perform sentiment analysis in order to determine the level of bias present in a news article.
- Working with a project team to create a Javascript front end and Python backend deployed on Heroku.

### Go Get Out

Urbana, IL

ANDROID APPLICATION FOR FINDING A GYM BUDDY IN YOUR PROXIMITY

Sep. 2017

- A fitness application for motivating lazy people to go get out! Go for a jog or a run by finding a workout buddy with same exercise preferences in your proximity.
- Used Firebase to store data and Google Maps api to get current location and display path and maps activity. Source code on GitHub

### Small Talk Boy

Urbana, IL

VOICE CONTROLLED SMALL TALK CHATBOT

Mar. 2018

- A chat bot with small talk onversation skills.
- Uses speech recognition and sentiment analysis to provide short responses to generic small talk. Uses Watson and Diagflow for sentiment analysis and speech recognition.