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, 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.

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.

Projects

Partial *Urbana, IL*

CHROME EXTENSION *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 *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 personal website.

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.

Github projects *Urbana, IL*

SIDE PROJECTS DONE WHILE PLAYING AROUND WITH OPEN SOURCE APIS *Sep. 2017*
- I spend a lot of time tweaking with open source APIs and try to incorporate them in fun programs. Some of them are, voice controlled text based rpg in java, tfidf and sentiment analysis on nursery rhymes, a naive bayes classifier that I wrote and many more on `github.com/itsmesatwik`.