

Satwik Singh

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Education

University of Illinois at Urbana Champaign

Urbana, IL

B.S. IN STATISTICS AND COMPUTER SCIENCE

May 2021

- GPA: 3.3, Dean's List Fall 2017, Outreach Head for Poker RSO
- Notable Courses: **Operating System Design, Algorithms, Systems Programming, Deep Learning, Data Structures, Software Design Studio, Computer Architecture, Statistics and Probability, Statistical Programming Methods**

Frameworks & Languages

Skilled in, C, C++, Python, OpenMP, MPI, GNU/Linux, Pytorch, Java, ReactJS, RShiny and R, NodeJS, Numpy, Pandas, SQL, Scala, MongoDB, ~~TeX~~

Experience

Facebook

Menlo Park, CA

SOFTWARE ENGINEERING INTERN

May. 2020 - Aug. 2020

- Working on the largest social media platforms today.

University of Illinois

Urbana, IL

UNDERGRADUATE RESEARCHER

Jan. 2020 - current

- Working on problems in Exascale concurrent IO operations, and optimizations in topological representation of compute nodes.
- Working with **OpenMP and MPI**.

Twitter

San Francisco, CA

SOFTWARE ENGINEERING INTERN

May. 2019 - Aug. 2019

- Worked on Twitter **OSS Metrics** and wrote scripts and bots for Internal Communication on Jira via Slack.
- Worked on Twitter's **build tool, Pants** to add **Apache Thrift Node.js** support, and up-streamed it to GitHub.
- Worked on **Pants-internal** to add **Deadcode detection** task to help reduce memory and computational overhead during compilation and builds.

State Farm

Champaign, IL

DATA ANALYST INTERN

Sep. 2018 - Dec. 2018

- Developing a backend for an application to test various Time Series models developed by my team for use in Property and Casualty department on the aspect of rate revisions and loss predictions.

National Center for Supercomputing Applications (NCSA)

Urbana, IL

SOFTWARE DEVELOPMENT INTERN

May. 2018 - Aug. 2018

- Worked on an Open Source speech to text auto captioning service using open and closed source speech recognition APIs and enhancing them using various classifiers and recognition models.
- This project helped me become a **contributor** to two major open source projects, Clowder Project at NCSA and pyKaldi, a python wrapper for an open source speech recognition api Kaldi-asr.

Leadership Positions

Reflections | Projections

Urbana, IL

FRONT-END WEB DEVELOPER

Jan. 2018 - Dec 2018

- 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 registration website for students.

HackIllinois

Urbana, IL

EXPERIENCE STAFF

Sep. 2017- Feb 2019

- 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.

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