

# Aditya Bhargava

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## EXPERIENCE

### National Center for Supercomputing Applications (NCSA)

Dr. Volodymyr Kindratenko

8/2016 - Current

- Engineered an Object Storage on NCSA's Openstack service to store information like CT-scans of bone regeneration in animals.
- Organized the big data collected over many projects on a CentOS VM database running on Openstack
- Designed a web interface made in PHP/AngularJS to access and manage this huge information.

### Avignon Shipping Co.

Software Intern

06/2016 - 07/2016

- Formulated a Java Swing application to enter, display and update shipping records using Google's Cloud SQL service and replaced manual filing systems.
- Enhanced operational efficiency and reduced storage space by 20% due to this app.

### Wipro UI Development Intern

06/2014 - 07/2014

- Developed a dynamic web template using AngularJS.
- Collaborated with HR to create an E-learning platform using this template, significantly reducing training time

## LEADERSHIP

### ADSA Workshops Committee Senior Member

8/2015 – PRESENT UNIVERSITY OF ILLINOIS

Organized, wrote and delivered monthly workshops to students interested in Big Data and Analytics. Topics include: Advanced Python, Machine Learning using Scikit-Learn, Intro to R.

### ADSA Data Summit Organizing and Management team

02/2016

<https://summit.adsaiiuc.com/>

Managed the 2016 ADSA data summit in Urbana, an annual data-science related tech conference.

- Coordinated with companies involved with big-data such as PWC, ViaSat and Wolfram.
- Overviewed the Data Hackathon and workshops

### BUKIT - STARTUP AT UIUC

02/2016 - PRESENT

Founded a startup called 'Bukit'. Involved creating a social bucket list web-app that allows friends to see, add and comment on your bucket list. Presented it in the Cozad New Venture competition.

## EDUCATION

University of Illinois – Urbana Champaign Overall GPA: 3.75/4.0

Major: Computer Engineering

Minor: Computational Science and Engineering

Dean's List SPRING 2016, FALL 2016,

James Scholar

2015 – 2018 (Expected)

## PROJECTS

### ADSA

UNIVERSITY OF ILLINOIS

Used SVM to implement a handwriting recognition and face recognition application using Scikit-learn in python.

### SIGOPS

UNIVERSITY OF ILLINOIS

### SPRING 2016

Coproduced a Peer-To-Peer Secure Chat in C, which used a P2P protocol for secure, decentralized chat between parties. Further expanded this project by creating a GUI in Java.

### BUD LAB HACKATHON

### FALL 2016

Created a desktop application that alerted farmers when to harvest. Done by taking images and serving them on a raspberry pi, later scrapped for image processing in Scikit-image.

### WILDHACKS NORTHWESTERN UNIVERSITY

### FALL 2016

<http://presentable.herokuapp.com/>

Presentable uses Clarifai's deep-learning API to search personal Facebook images that might be inappropriate to employers.

### IEFX PROJECTS UNIVERSITY OF ILLINOIS

### FALL 2015

Created a medicine dispenser to dispense right dosage by using an Arduino that controlled 4 servos and required input from a fingerprint scanner. This project won the most innovative award in the 'Idea Fair' competition of Innovation LLC.

## TECHNICAL SKILLS

### Version Control

Git / Github / Gitlab

Subversion (SVN)

### Platforms

Linux (CentOS), MacOS, Windows

### Cloud Services

Google's Cloud SQL,

OpenStack

Heroku

### Languages and tools

X86, C, C++ , Java , Python 2

JavaScript, AngularJS, CSS,

HTML ,PHP , MySQL ,

Openstack Swift ,

Apache HTTP Server

Bash , Vim

### Other Skills

RESTful services , AJAX, JSON

Facebook's Graph, Clarifai,

Twitter API