

Harshit Agarwal

harshit.xyz | github.com/hagarwa3 | [linkedin.com/in/hagarwa3](https://www.linkedin.com/in/hagarwa3)
hagarwa3@illinois.edu | (510)298-6731

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

BS in Computer Science

Expected Dec 2017 | Urbana, IL

GPA: 3.66/4.00

MS in Computer Science

Expected Dec 2018 | Urbana, IL

College of Engineering

Dean's List Fall 2016, Spring 2016

James Scholar

Course Staff for Honors Intro to CS

COURSEWORK

Applied Machine Learning

Text Information Systems

Adv. Distributed Systems

Adv. Social and Information Networks

Computational Photography

AI for Autonomous Vehicles

Database Systems

Theory I (Algorithms)

Systems Programming

FALL 2017

Machine Learning for Signal

Processing

SKILLS

PROGRAMMING

Experienced:

Python • Java • C++ • Scala

C • Matlab • SQL • MongoDB

Familiar:

Shell • JavaScript • R • Go

HTML • CSS • Haskell • MIPS

Other Technologies:

Kafka • Storm • Spark

ElasticSearch • TensorFlow

ScikitLearn • Avro • PCL • Mesos

OpenCV • Akka

EXPERIENCE

SALESFORCE.COM | DATA ENGINEERING INTERN (SALESFORCE EINSTEIN)

June 2017 - Present | Palo Alto, CA

SALESFORCEIQ | SOFTWARE ENGINEERING INTERN

June 2016 - August 2016 | Palo Alto, CA

- Built a SalesforceIQ bot for Slack, which enables users to get push notifications and make simple queries through Slack
- Made multiple additions to the existing API and built the architecture for SalesforceIQ's internal webhooks

STATE FARM | SYSTEMS INTERN

May 2015 - Aug 2015 | Urbana, IL

- Built an in car gesture recognition system to detect distracted driving using computer vision, working with a point cloud capturing device
- Worked on modeling customer attrition rates using social media markers

RESEARCH

CROWD DYNAMICS LAB AT UIUC | UNDERGRAD RESEARCHER

August 2015 - May 2016 | Urbana, IL

Worked with Professor Hari Sundaram to analyze the evolution of a person's behavior in different communities. Using Gaussian HMMs and network analysis to cluster behavior change patterns observed in research and in academic research communities and internet communities such as Stack Exchange.

DISTRIBUTED PROTOCOLS RESEARCH GROUP

August 2015 - May 2016 | Urbana, IL | harshit.xyz/GNuggies.pdf

Worked with Professor Indy Gupta. Working on a model and simulation for a publicly hosted cloud with the ability to automatically scale in and scale out services with varying demands.

PROJECTS

SELF DRIVING RC CAR | ARDUINO AND OPENCV POWERED CAR

October 2015 | github.com/hagarwa3/self_driving_rc_car

An Arduino powered car that can navigate a simple track and detect objects, via an attached camera and a RaspberryPi. Also includes a streaming setup to view and control the car's movement remotely. Built with Python, OpenCV, ScikitLearn and Arduino

SEARCHOVERFLOW | SMART SEARCH ENGINE FOR STACK OVERFLOW DATA

May 2016 | github.com/hagarwa3/stackoverflow-search

Used the StackOverflow data dump and ElasticSearch to create a search engine, and trained a keyword extraction algorithm to build smart queries. Built using Python, ElasticSearch, Flask and Shell

ACTIVITIES

ASSOCIATION OF DATA SCIENCE AND ANALYTICS | PRESIDENT

Jan 2015 - Present | Urbana, IL

- Work on a different data based project every semester. Past projects have included stock trend prediction and search relevance prediction
- Organized sample projects and resources for workshops on Spark, databases, Python, basic machine learning and basic NLP
- Organized the ADSA Data Summit, UIUC's first student run big data conference