Harshit Agarwal

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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

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
June 2017 - Present | Palo Alto, CA
- Intern on the Salesforce's Einstein Platform team. Building an updated data delivery and verification architecture for scoring results for leads processed by the platform's models.

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
- Created 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.

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 in different online and real life communities.

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 2016 | 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