

Niharika Manda

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Education

University of Illinois at Urbana Champaign

B.S. IN COMPUTER SCIENCE AND LINGUISTICS

- Specialization: Natural Language Processing/Computational Linguistics | Minor: Technological Entrepreneurship

Urbana, IL

Spring 2020

Skills

- Languages** Python, Java, Scala, C/C++, C#, SQL, HTML/CSS, ROSJava, Bash, R
- Technologies** Hadoop, Spark, Apache Impala, Android Studio, Kafka, Git, SVN, Linux, Oozie, Robotic Operating System
- Databases** HDFS, MYSQL, Firebase, DynamoDB(NoSQL)
- Coursework** Data Structures, Software Design, Computer Architecture, Natural Language Processing, Systems Programming, Algorithms

Experience

Bank of America

SOFTWARE ENGINEERING INTERN

- Worked on back-end Spark ETL application for transactional foreign exchange trading platform.
- Wrote automated SQL & SparkSQL jobs for Apache Impala.
- Remediated security vulnerabilities in Java & Scala codebase.

Chicago, IL

May 2019 - PRESENT

National Center for Supercomputing Applications

DATA ENGINEERING INTERN

- Implemented data-pipeline to process data and translate scientific data sets into visualization tools such as Houdini & Tableau
- Built software components to adapt raw simulation data into a format that can be interactively explored and rendered.

Urbana, IL

Summer 2018

John Deere

SOFTWARE ENGINEERING INTERN

- Developed android application that can command, remotely operate, and visualize real-time sensor, IMU & lidar data from mobile robots running on ROS (Robot Operating System) using ROSJava.
- Collaborated with data science, hardware and test teams & implemented IOT capability to streamline hardware testing in lab.
- Worked on simulation robots to build ROS pub/sub nodes using Ubuntu, RaspberryPi, and Android Studio.

Urbana, IL

Spring 2018

Dept. of Computer Science @ UIUC

COURSE ASSISTANT: CS 125 INTRO TO COMPUTER SCIENCE

- Assist graduate TA during lab to reinforce lecture material in class.
- Facilitate group discussions, code review, debugging assignments.

Urbana, IL

Fall 2018

Research

Research Symposium '18 Winner - Human & Social Impact

UNDERGRADUATE RESEARCH ASSISTANT - NATURAL LANGUAGE PROCESSING

- Developed a parsimonious language model using Twitter API (Tweepy) & Python libraries.
- Used sentiment analysis to identify linguistic features that affect credibility perception of fake-news on social media.

UIUC Dept. of Informatics

Spring '18

Projects

bhagavat gita

ALEXA SKILL, AWS LAMBDA/DYNAMO DB/S3

- Amazon Alexa skill that reads verses from Bhagavad Gita based on both chronological order & request.
- DynamoDB keeps track of the users' progressions through the Gita & GC Storage holds the spoken recordings.

personal project

in progress

confess

ANDROID STUDIO, FIREBASE

- Q & A Android app for anonymous Health/Social issues to create a community for mental health disorders.
- Implemented Firebase real-time database, user authentication, CameraAPI and real-time post interaction.

CS 126 Final Project

2017

dietDB

PHP, SQL

- Responsive database that considers dietary restrictions and provides diet plans within those same restrictions.
- Built an interactive website where one can select different nutrients and generate possible diets.

CS 411 Final Project

2019

Involvement

present **Operations Chair & Blogger**, Reflections|Projections (Largest Student-Run Tech Conference in the Mid-West)

UIUC

present **Marketing Director**, Founders: Illini Entrepreneurs

UIUC

'17 - '19 **Mentoring & Outreach**, Women in Computer Science

UIUC

Sp '19 **Facilitator**, Girls Who Code UIUC

UIUC

present **Creative Director**, Illini Awaaz Acapella

UIUC