Rohit Karki

New York, NY | U.S Citizen | Wiling to relocate.

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Technical Skills

Language	Frameworks	Tools
- Python	- Flask	- Git
- Javascript	- ReactJS	- OSX
- Ruby	- Kivy	
- C++		
- HTML/CSS		

Experiences/Projects

Intelligent Water Jug Puzzle Solver
Current
Python, Flask, ReactJS, Ajax, json

- Developed an intelligent system that presents step-by-step solution to water jug puzzle incorporating Artificial Intelligence concepts and RESTful architecture.
- Intuitive frontend interface written in ReactJS and backend architecture in Flask framework, python.
- Hosted in Heroku: https://water-jug-puzzle-solver.herokuapp.com
- Source: https://github.com/rkarkicodes/intelligent-water-jug-problem-solver

Computer Science Tutor
September 2015 – June 2016
Assisted students to understand and apply newly learned materials from the following courses:
- Intro to Computer Science in C++.
- Intro to Data Structure in C++.
- Intro to Object Oriented Class in C++.

York College Summer Research Program: Propagation of Influence in a Network
May 2015 - December 2015
Python, Sqlite3, json, matplotlib

- Worked closely with mentor/professor to develop the metric/equation to formulate what entails as influence of each node in a network.
- Parsed crude dataset using regex and populated in database.
- Designed efficient database schema and algorithm that queries database to calculate "influence" of each node from retrieved data.
- Built a tool to run graphical and statistical analysis (probability density function, histogram etc.) from the database.
- Source: https://github.com/rkarkicodes/Social-Influence

Duncan Trussell Family Hour Podcast on Android
March 2015
Python, Kivy, json, Android SDK, web scraping

- Dedicated Android app for Duncan Trussell Family Hour Podcast.
- Wrote an efficient web scraper using Beautiful Soup library in python to retrieve and store relevant data of all the episodes from the podcast website.
- Displays relevant info on each episode with their corresponding images of the guest and description.
- Designed intuitive user interface and efficient audio player.
- Source and Screenshots: https://github.com/rkarkicodes/DTFH-on-Android

Education
City University of New York: York College
Bachelors of Science in Computer Science 2016