VINAYAK RAGHUPATHY

516-289-3254 · vr840@nyu.edu
115 Highland Avenue Apt 8, Jersey City, New Jersey 07306

EDUCATION

New York University, Courant Institute of Mathematical Sciences, New York, NY May 2017
Master of Science, Computer Science, GPA: 3.33/4.00
Coursework in Big Data, Fundamental Algorithms and Programming Languages

Manipal Institute of Technology, Manipal, India May 2012
Bachelor of Engineering, Computer Science and Engineering, GPA: 8.41/10.00

TECHNICAL SKILLS

- Database Management Systems (Db2,Oracle)
- Data Structure and Algorithm
- Shell Scripting
- C, C++, SQL, PL/SQL
- Operating Systems: Windows, Unix, Linux
- Tools: Putty, Data studio, Winscp382, SqlPlus, Sql*Plus, I Sql Plus, NS2 Simulator

PROFESSIONAL EXPERIENCE

IBM India Pvt Ltd on Bharti AMS Project, Gurgaon, India Oct 2012 - Dec 2014
Associate Systems Engineer

- Manhattan-Designed the template and implemented the ETL (Extraction/Transformation/Loading) process for component and packs, for which any prepaid customer could create and receive call, internet, and SMS benefits collectively
- Rule Engine- Implemented the back end database design and handled and streamlined the ETL process of data certifying the offer and promo benefits based on preset business rules
- SUK-Automated the file pulling, extraction and loading logic for of all the prepaid and postpaid consumer data including the activations of new customers and disconnection of existing customers; scheduled it on a daily basis
- Subscription Engine-Strengthened the back end churning process for the complete Airtel's customer prepaid and postpaid base in India and integrated it in the application

ACADEMIC PROJECTS

Enhancing Efficiency of Wireless Transmission Medium for Improvement of Quality of Service in Mobile Ad Hoc Networks (AWK, C++, OTCL, NS2 Simulator) Summer 2012

- Conducted a research analysis on the routing protocols AODV and AOMDV
- Utilized Quality of Service metrics to evaluate and analyze their performance for various simulations on NS2 Simulator
- Implemented a QOS metric Link Lifetime based on the guidelines of the IEEE paper

Cluster Analysis on Yelp, Zomato, and Google Places Restaurant Data to Produce a Rating/Review on Google Maps API October 2015-December 2015

- Filtered and cleaned data input using Hive from Yelp, Zomato and Google places
- Computed analytics like best cuisine, top restaurants, best/worst neighborhoods with respect to restaurants and weighted average of the selected zip code/neighborhood calculated on the combined data using Mapper and Reducer and visualized using Google Maps API and Dynamic HTML

CERTIFICATIONS

Rice University: An Introduction to Interactive Programming in Python (Part 1 & Part 2)

Big Data University: SQL Fundamentals I