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RAHUL CHOWDHURY

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EDUCATION

University of Colorado Boulder   **May 2019**
Master of Science - Computer Science with Data Science and Engineering Sub plan   **GPA: 3.32/4.0**
Relevant Courses: Machine Learning, Statistical Methods, Statistical Collaboration, Database Systems

Vellore Institute of Technology   **May 2017**
Bachelor of Technology - Computer Science and Engineering   **GPA: 8.57/10**
Relevant Courses: Data Structures and Algorithms, Data Mining and Warehousing, Object Oriented Paradigm and Programming, Applied Probability and Statistics

TECHNICAL SKILLS

Programming Languages: Python, R, Java, MySQL, JavaScript, PHP
Frameworks & Software: TensorFlow, Keras, Git Version Control, Google Analytics, Hadoop Map Reduce, Spark, Pandas, Scipy, Numpy, Jupyter Notebook, Google Home and Alexa API Developer Console, Flask
Programming Environments: Linux, MacOS, Windows

WORK EXPERIENCE

CenturyLink – Denver, CO   **Software Engineering and Data Science Intern**   **May 2018 – Aug 2018**
- Implemented a system to collect data from the Digital Home Application for predicting customer usage patterns.
- Utilized the Elasticsearch, Logstash and Kibana stack to design data visualizations for the software engineering team.
- Embedded Google Analytics API to the Digital Home Application to log data for further data science/analytics.
- Designed the framework to connect the Digital Home Application to the Amazon Alexa API.

CU Boulder – Computer Science – Boulder, CO   **Student Assistant**   **Aug 2017 – Dec 2017**
- Develop class demonstrations and examples of Data Mining using Python in Jupyter Notebook.
- Mentor students for the various Data Mining projects undertaken by them during the semester.
- Grade the weekly Data Mining programming assignments.

Edmingle Learning Management Systems – Chennai, India   **Data Science Intern**   **Dec 2014 – May 2015**
- Conceptualized a course recommendation system used by various small schools and private tutors in Southern India.
- Used sophisticated Data Mining algorithms such as Apriori Rule Mining for generating frequent course itemsets.
- Used K-Means algorithm to cluster similar courses and student profiles and recommend the next course accordingly.

Google Developers Group – Vellore, India   **Senior Developer**   **June 2014 - Sep 2015**
- Developed a web platform called Admin Panel to help manage VIT University's various student clubs and chapters to manage their daily tasks, events and meetings in a hassle-free manner.
- Participated in various regional and national hackathons.

PROJECTS

CLI Interface for Cassandra Database   **Fall 2017**
- Executed basic queries using Cassandra's query language shell (CQLSH).
- Developed a CLI (command line interface) for handling simple queries such as showing, listing and using keyspaces on the Cassandra database.

GRDB – Open Source Graph Database   **Fall 2017**
- GRDB is an open source graph database developed at CU Boulder under the supervision of Professor Frank Miller.
- Worked in implementing the join functionality in GRDB.
- Implemented Dijkstra's algorithm on GRDB to find shortest distance between two nodes in the given graph.

PUBLICATIONS

A Classification Model to Analyse the Spread and Emerging Trends of the Zika Virus in Twitter
ICCIDM Springer - 2016
Using Ensemble Learning and Association Rules to Help Car Buyers Make Informed Choices
BDAW – ACM 2016

EXTRA-CURRICULAR ACTIVITIES

Emotional Quotient (EQ) Workshop, University of Colorado Boulder   **Fall 2017**
Certified in EQ workshop focussed on understanding emotional awareness, conflict resolution and decision making.
Bridges International at University of Colorado Boulder – Student Leader   **Fall 2017**
Organized meetings and workshops for Bridges International, an organization working with international students.