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# RAHUL CHOWDHURY

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## EDUCATION

<b>University of Colorado Boulder</b>	<b>Boulder, Colorado</b>	<b>May 2019</b>
Master of Science - Computer Science with Data Science and Engineering Sub plan		<b>GPA: 3.54/4.0</b>
Relevant Courses: Machine Learning, Statistical Methods, Statistical Collaboration, Datacenter Scale Computing		
<b>Vellore Institute of Technology</b>	<b>Vellore, India</b>	<b>May 2017</b>
Bachelor of Technology - Computer Science and Engineering		<b>GPA: 8.57/10</b>
Relevant Courses: Data Structures and Algorithms, Data Mining and Warehousing, Object Oriented Programming		

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

<b>LISA – Applied Math Department - CU Boulder, CO</b>	<b>Data Science/Statistical Collaborator</b>	<b>Aug 18 - Ongoing</b>
<ul style="list-style-type: none"><li>Collaborated with domain experts from interdisciplinary fields to infer meaningful insights with data science.</li><li>Trained with required skills to communicate results to statistical/data science inferences to non-statisticians.</li></ul>		
<b>CenturyLink – Denver, CO</b>	<b>Software Engineering and Data Science Intern</b>	<b>May 2018 – Aug 2018</b>
<ul style="list-style-type: none"><li>Designed and developed a framework that collated data from the Digital Home Application for further data analytics.</li><li>Worked with the software backend team in inculcating AI capabilities into the Digital Home Application.</li><li>Designed data visualizations to aid the software engineering team in daily operations and maintenance.</li></ul>		
<b>CU Boulder – Computer Science – Boulder, CO</b>	<b>Student Assistant</b>	<b>Aug 2017 – Dec 2017</b>
<ul style="list-style-type: none"><li>Developed demonstrations utilizing the various Data Mining techniques to discover new patterns in various data sets.</li><li>Mentor students and encourage qualitative and quantitative analytical skills in their Data Mining projects.</li></ul>		
<b>Edmingle Learning Management Systems – Chennai, India</b>	<b>Data Science Intern</b>	<b>Dec 2014 – May 2015</b>
<ul style="list-style-type: none"><li>Conceptualized a course recommendation system used by various small schools and private tutors in Southern India.</li><li>Used sophisticated Data Mining algorithms such as Apriori Rule Mining for generating frequent course itemsets.</li><li>Used K-Means algorithm to cluster similar courses and student profiles and recommend the next course accordingly.</li></ul>		
<b>Google Developers Group – Vellore, India</b>	<b>Senior Developer</b>	<b>June 2014 - Sep 2015</b>
<ul style="list-style-type: none"><li>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.</li></ul>		

## PROJECTS

<b>THE JOB SOLVER</b>	<b>TOOLS USED: AWS, MONGODB, SPARK, ELK STACK</b>	<b>Fall - 2018</b>
<ul style="list-style-type: none"><li>Leveraged the storage and computation of the cloud (Amazon Web Services) to develop a 'job title' predicting system.</li><li>Developed a distributed system to extract the most important words from a given job description.</li></ul>		
<b>BEE'S FOOD NETWORKS ANALYSIS AND MODELLING</b>	<b>TOOLS USED: PANDAS, NETWORKX, D3.JS</b>	<b>Fall - 2018</b>
<ul style="list-style-type: none"><li>Modelled a food network of bees to determine various network statistics and showed similarities to a small world network.</li><li>Utilized various spreading models and performed advanced data analytics to find trends in the different food cascades.</li></ul>		
<b>GRDB – OPEN SOURCE GRAPH DATABASE</b>		<b>Fall - 2017</b>
<ul style="list-style-type: none"><li>GRDB is an open source graph database developed at CU Boulder under the supervision of Professor Frank Miller.</li><li>Implemented Dijkstra's algorithm on GRDB to find shortest distance between two nodes in the given graph.</li></ul>		

## PUBLICATIONS

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

## EXTRA-CURRICULAR ACTIVITIES

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