**ROHIT MITTAPALLI**

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Undergraduate looking to use data science and software engineering to empower business

**EDUCATION**

**Georgia Institute of Technology Graduation:** Dec 2020

B.S in Computer Science. Minor in Economics  **GPA**: 4.00

**Certifications:** Coursera Deep Learning Specialization, Udacity Data Analyst Nanodegree Program

**Achievements:** 1st at Citadel DataOpen at Georgia Tech, Vanderbilt Hackathon Most Disruptive Hack and Best Financial Hack, International Student Science Fair representative, National Merit Finalist

**WORK EXPERIENCE**

**WorldQuant August 2018 – Present** Research Consultant | Virtual Research Center *Working Remotely*

**BazaarVoice**    **May 2018 – Aug 2018**

Data Science Intern | Content Integrity  *Austin, TX*

* Automated 17.6% of all image moderation saving over $65,000 per year by detecting copyright with 2 machine learning models
* Discovered drawbacks to photo quality rating by humans and created an alternate model with 74% accuracy on AWS SageMaker
* Debugged an ETL script called daily to transfer machine learning model outputs from data source to Amazon Web Services

**The Home Depot**    **January 2018 – Present**

Software Engineering Intern | Search Components Team  *Atlanta, GA*

* Empowered Home Depot to objectively improve autocomplete predictions by creating a metric to assess quality and relevancy
* Removed bias from current metrics by using Word2Vec and a RNN for term diversity evaluation instead of Home Depot data
* Provided insight into the autocomplete system by analyzing the impact of recommended term diversity on autocomplete usage

**Northwestern University June 2015 – June 2016**

Research Intern | Under Dr. Randall Berry *Evanston, IL*

* Created models able to increase data speeds by designing bandwidth allocation schemes in a network of femto and macrocells
* Analyzed informational cascades with 2 more nuances than mathematical models by using a markov chain and first step analysis
* Shared work by presenting the Markov chain model at the 700+ person Informational Theory and Applications conference

**PERSONAL PROJECTS**

**VeriResume June 2018 - Present**

* Developing an online platform to add applicant driven verification to resumes via document upload and manager feedback
* Marketed product using website (veriresume.co) to drive newsletter and gain feedback from recruiters

**Citadel Data Open**   **February 2018**

* Won $20,000 at a Citadel hosted data open along with a team of 3
* Analyzed city data to optimally place public service buildings in 6 cities across America using heatmaps and a random forest

**WeLocate—Vandy Hacks (***Most Disruptive Hack* by RedVentures / *Best Financial Hack* by Capital One**) October 2017**

* Developed a web app for small business owners to capture relevant data and use machine learning to find startup locations
* Created the machine learning model on AWS and used python scripts for data collection across multiple open APIs

**Pokémon Go—Swarm Algorithm**   **June 2016 – August 2016**

* Designed a heuristic swarm algorithm to find a Euclidean circuit across my local park to optimize Pokémon Go loot
* Tested algorithm on distance weighted graph of a local park and improved efficiency from 18 to 21 stops in 30 minutes

**LEADERSHIP**

**FRC Robotics**   **September 2015 – May 2018**

*CAD Head, Captain, Adult Mentor*

* Led a 55+ member team, organized sessions, managed finances and mechanically supervised for over 500 documented hours
* Increased retention rate by over 200%, increased population from 20 to over 55 members, more than doubled total man hours

**Computational Finance Club @ Georgia Tech November 2017 – Present**

*Treasurer, Undergraduate Head*

* Handled club account with student government, organized budgets, and maintained ledger of voting membership
* Created undergraduate awareness of the club and initiative by hosting joint master and undergraduate computational contests

**Automated Algorithms Design – Vertically Integrated Project January 2018 – Present**

* Designed machine learning, genetic, and evolutionary algorithms to outperform optimization methods and existing algorithms
* Predicted the effect of news headlines on stock prices using EMADE genetic programming and bag of words NLP algorithms

**SKILLS**

**Languages:** Python, JAVA, C#, SQL, R, HTML/CSS, Spark, Javascript, MATLAB

**Frameworks/Tools:** Keras, Android Studio, TensorFlow, GIT, AWS ML Studio, Tableau, LaTeX, Maven, Jupyter Notebooks, Bootstrap