

# ROHIT MITTAPALLI

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

## EDUCATION

### Georgia Institute of Technology

B.S in Computer Science (Intelligence & Theory Concentrations) | Minor in Economics

**Graduation:** Dec 2020

**GPA:** 4.00/4.00

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

**Achievements:** 1<sup>st</sup> at Citadel DataOpen at Georgia Tech, Vanderbilt Hackathon Most Disruptive Hack and Best Financial Hack

**Affiliations:** Alpha Kappa Psi, Computational Finance Club

## WORK EXPERIENCE

### WorldQuant

Research Consultant | Virtual Research Center

**August 2018 – Present**

*Working Remotely*

### BazaarVoice

Data Science Intern | Content Integrity Team

**May 2018 – Aug 2018**

*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

Software Engineering Intern | Search Components Team

**January 2018 – May 2018**

*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

Research Intern | Under Dr. Randall Berry

**June 2015 – June 2016**

*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