

# ROHIT MITTAPALLI

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## EDUCATION

### Georgia Institute of Technology

B.S. in Computer Science (Intelligence & Theory)

Graduation: May 2021

GPA: 4.00 / 4.00

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

**Awards:** 1st at Citadel DataOpen at Georgia Tech, Vanderbilt Hackathon Most Disruptive Hack and Best Financial Hack

**Coursework:** Robotics and Perception, Intro to Artificial Intelligence, Computer Organization & Programming, Data Structures & Algorithms

## EXPERIENCE

### Uber

September 2019 – December 2019

Software Engineering Intern | Search Infrastructure

Palo Alto, CA

- Optimized performance of for all weighted queries searching for top results by 150x by integrating the WAND operator into Boolean queries
- Enabled queries to expand across geographic regions to maximize results and optimize performance by developing on Lucene infrastructure

### Interactive Optimization and Learning Lab

September 2019

Researcher | Dr. Sebastian Pokutta

Working Remotely

- Refactored and added documentation to blended conditional gradient (BCG) package to increase readability, stability and performance
- Studied constrained convex optimization techniques including lazification of Frank-Wolfe algorithms and variants to find BCG improvements

### Microsoft

May 2019 – August 2019

Software Engineering Intern | PowerAI

Seattle, WA

- Built an expandable ML pipeline to visualize performance of feature engineering and selection methods against 8 datasets and 3 models
- Designed a genetic algorithm for feature selection achieving comparable and more consistent performance than current selection methods
- Converted current data quality checks for AI Builder to a metadata driven approach allowing each model to have unique validations

### BazaarVoice

May 2018 – Aug 2018

Data Science Intern | Content Integrity and Insights Team

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

### The Home Depot

Jan 2018 – May 2018

Software Engineering Intern | Search Components Team

Atlanta, GA

- Provided insight into the autocomplete system by analyzing the impact of recommended term diversity on autocomplete usage
- Removed bias from current metrics by using Word2Vec and an RNN for term diversity evaluation instead of Home Depot data

### Northwestern University

June 2015 – June 2016

Research Intern | Dr. Randall Berry

Evanston, IL

- 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

- Developed an applicant-driven resume verification platform ([demo.veriresume.co](https://demo.veriresume.co)) using React.js, Express, MongoDB and AWS services
- Marketed product using website ([veriresume.co](https://veriresume.co)) to drive newsletter and gain feedback from recruiters

### Stock Simulator ([stocksim.rohitmittapalli.com](https://stocksim.rohitmittapalli.com))

October 2018

- Developed a 20-minute stock trading game for 12 teams of 4 using React.js and Firestore to teach basic stock trading to fraternity
- Generated artificial news events and corresponding stock prices using a random bounded walk and a real-world beta volatility

### 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

## ACTIVITIES

### Alpha Kappa Psi – Professional Business Fraternity

Jan 2018 – Present

Vice President of Finance

- Managed a stock portfolio of \$15,000+ along with 3 other directors, receiving and filtering input from the 85+ brother fraternity
- Hosted personal finance workshops and stock simulations to teach investment strategies and educate them in other related subjects

### Computational Finance Club @ Georgia Tech

Nov 2017 – Present

Undergraduate Head | Treasurer

- Handled club account with student government, hosted industry professionals, maintained membership, and organized budgets
- Created undergraduate awareness of the club and initiative by hosting joint master and undergraduate computational contests

## SKILLS

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

**Frameworks:** Lucene, React.js, MongoDB, Keras, Firebase, Android Studio, TensorFlow, AWS ML Studio, Tableau