**ROHIT** MITTAPALLI

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EDUCATION

**Georgia Institute of Technology Graduation: May 2021**

B.S. in Computer Science (Intelligence & Theory)  *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 PokuttaWorking 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](http://demo.veriresume.co/)) using React.js, Express, MongoDB and AWS services
* Marketed product using website ([veriresume.co](https://www.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