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

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

**Coursework:** Intro to Computer Vision, Robotics and Perception, Game AI, Intro to Artificial Intelligence, Systems and Networks

EXPERIENCE

**Adaptive Learning Lab**  **January 2020 - Present**

*Student Researcher* | Dr. Judy Hoffman Atlanta, GA

* Researching techniques to develop a model bank capable of recommending transfer initializations in a data private and efficient manner
* Presented likelihood landscapes and a weighted Jacobian regularizer as a unifying principle behind adversarial defense at AROW@ECCV 2020
* Streamlined adversarial robustness research by creating a custom PyTorch testbench and building out accompanying visualizations

**Cruise Automation [CANCELED due to COVID-19]**

*Software Engineering Intern* | Perception Team

**Uber September 2019 – December 2019**

*Software Engineering Intern* | Search Infrastructure Palo Alto, CA

* Optimized performance of 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

**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

**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 deployed 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

PERSONAL PROJECTS

**Citadel Data Opens February 2018 / July 2018**

* Won $20,000 at the Citadel hosted data open along with a team of 3 and invited to participate in the 2019 Data Open World Championships
* Analyzed city data to optimally place public service buildings in 6 cities across America using heatmaps and a random forest
* Examined the effect of the interconnectedness of an airline on its stability to external factors (e.g weather, fuel prices)

**VeriResume June 2018 – May 2019**

* 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 business fraternity
* Generated artificial news events and corresponding stock prices using a random bounded walk and a real-world beta volatility

**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 – May 2018**

*Vice President of Finance*

* Managed a stock portfolio of $15,000+ along with 3 other directors, receiving and filtering input from the 85+ member business 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 – Nov 2018**

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