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 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

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) using React.js, Express, MongoDB and AWS services
- Marketed product using website (veriresume.co) to drive newsletter and gain feedback from recruiters

Stock Simulator *(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