ROHIT MITTAPALLI

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EDUCATION

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

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

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

VeriResume **Jun 2018 – Present**

Co-Founder *Atlanta, GA*

- 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

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
- Debugged an ETL script called daily to transfer machine learning model outputs from data source to Amazon Web Services

The Home Depot **Jan 2018 – May 2018**

Software Engineering Intern | Search Components Team *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 **June 2015 – June 2016**

Research Intern | Dr. Randall Berry *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

Stock Simulator *(stocksim.rohitmittapalli.com)* **Oct 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 **Feb 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

Pokémon Go Swarm Algorithm **Aug 2017**

- Designed a heuristic swarm algorithm to find a Euclidean circuit across my local park to optimize Pokémon Go loot using C++
- Tested algorithm on distance weighted graph of a local park and improved efficiency from 18 to 21 nodes in 30 minutes

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

Automated Algorithms Design – Vertically Integrated Project **Jan 2018 – May 2018**

- 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, C++, JAVA, C#, SQL, R, HTML/CSS, Spark, Javascript, MATLAB

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