Arihan Shah

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Education

Georgia Institute of Technology (Atlanta, GA)

- Graduated in Dec. 2019 with a BS/MS in Computer Science / Concentration: Machine Learning (GPA 3.8)

Experience

Master's Coursework — Fall '18 to Fall '19

- Machine Learning, ML for Trading, ML for Health, ML for Robotics, Statistical Machine Learning
- Numerous ML projects included models built for stock market evaluation, robotic localization and mapping, health informatics, flight travel modeling, and computer vision techniques for feature tracking.
- Comp Sci & Engineering Algorithms, Graduate Computer Vision
- Data and Visual Analytics, Database System Concepts & Design

Flex – Software Engineer Intern: Cloud Communications and Solutions — Summer '18

- Designed and created an automated and scalable framework to simultaneously test multiple databases (MongoDB, Cassandra, etc.) with multiple benchmarks eliminating the constraint of manually running 1 benchmark task at a time.
- Designed and coded ample python scripts to eliminate 100% of manual debugging efforts allowing users to simultaneously run unlimited benchmark tasks and manage exceptions as needed.
- Developed an internal real-time success metric dashboard to display real-time i/o and read/write performance, benchmark progress, and overall database comparison evaluations to deliver a feedback loop to senior management and design team to build better servers

Flex – Software Engineer Intern: Cloud Communications and Solutions — Summer '17

- Eliminated entire manual database deployment efforts by automating the deployment, configuration/clustering, and clean-up of 4 databases using Ansible, enabling better server racks to be built and pushed to qualification for revenue recognition through industry clients.
- Created comprehensive analysis and visualization of database performance in difference cluster settings and environments in order to create data server racks that are competitive in database performance regardless of client's technology and/or configuration preferences.

Intel – Software Engineer Intern: Machine Learning — Summer '16

- Used Intel's Curie, a small device that includes a magnetometer, accelerometer, and gyroscope, in an attempt into finding it's applications to baseball.
- In order to test the reliability of the device as a baseball swing tracking sensor, I captured dozens of datasets to train our supervised learning algorithms and put these datasets through rigorous verification processes to maximize accuracy of our algorithms with the final intent to provide accurate swing statistics to gain better insight into the game.
- Implemented and performed the entire machine learning pipeline from data collection to algorithm optimization and parameter tuning with the goal of proving that when used in sports settings, this Curie device and provide data to effectively optimize athlete's performance and consistency, enhance fan experience, and assist in player scouting.

Undergraduate University Research (Georgia Tech Research Institute) — Fall '15 to Spring '16

- Worked alongside Ph.D. candidates at Georgia Tech Research Institute (GTRI) scraping college basketball data off various stat-tracking websites into a SQLite database. Using D3 library in order to create stunning visualizations of March Madness and regular season data.

Skills and Technologies

- Programming Languages: Python, SQL, Java, C#, C++, HTML, CSS
- Technologies: Pandas, NumPy, SciPy, TensorFlow, Keras, PyTorch, OpenCV, Git, Flask, SQL, Ansible, relational and NoSQL DBs, Spark, Hive, Hadoop, Tableau, Grafana, Kibana, Metabase, Kubernetes/Docker