



# ADITYA SINGH

 (443) 848-0091  asingh682@gatech.edu  github.com/adisingh50  https://adisingh50.github.io

## EDUCATION

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Georgia Institute of Technology, Atlanta, GA

Expected Graduation Date: May 2022

Bachelor of Science, Computer Science

GPA: 4.00

Concentrations: Intelligence & Theory

## WORK EXPERIENCE

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Queues | GT InVenture Prize Winner

August 2020 - Present

*Backend Developer*

- Built REST API in Flask to handle mass amounts of livestreamed computer vision based data
- Stored over 200k data points in InfluxDB to perform continuous analytical queries and updates
- Implemented JSON tokenization to securely store/authorize mobile and web users in MongoDB

T-Mobile | Marketing DevOps Team

June 2020 - August 2020

*Software Engineer Intern*

- Built a full-stack application to assist DevOps Engineers in monitoring/resolving big data job workflows
- Optimized the job failure resolution process for Senior Engineers by 50% by transferring their daily logging responsibilities from an Excel Spreadsheet to an internally deployed web application
- Performed live updates by regularly scanning a REST API to provide insight on the status of over 1,000 job failures stored in a PostgreSQL Database
- Wrote batch processing scripts in Azure Databricks to analyze financial/customer data from T-Mobile offices

NIST | Software and Systems Division

June 2019 - August 2019

*Software and Systems Intern*

- Gathered data from infrared sensors used to measure foot traffic in high-volume, public locations
- Scripted regression models using TensorFlow and Python to extract sinusoidal patterns in collected foot traffic data and extrapolate said patterns to make predictions into the future

## PROJECTS / RESEARCH

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Live Feed Facial Recognition | Athena Robotics Team

August 2020 - Present

- Experimented with Local Binary Patterns (LBPH) model to perform basic edge detection on face images
- Trained Conv. Neural Net (CNN) with over 20,000 faces to accurately classify verified members of the laboratory
- Created a live feed video capture Python script (using OpenCV library) and integrated onto Jetson Nano

"ViewMarks" | Photo Sharing Mobile Application

June 2020 - July 2020

- Created (independently) a location-based photo sharing application allowing users to share aesthetic views from around the globe and rate other people's picture-based posts using React Native and Expo
- Implemented a backend REST API in Node.js to seamlessly upload mobile camera images to an AWS S3 Bucket and store post information on MongoDB

Named Entity Recognition | GT Undergraduate Research

October 2019 - February 2020

- Web scraped company 10-K files to extract relevant financial information with Selenium in Python
- Trained spaCy's NER (Named Entity Recognition) Model to identify novel company names from scraped text
- Developed an expansive Knowledge Graph to visualize the model's findings

## SKILLS/TOOLS

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**Programming Languages:** Java, C, Python, JavaScript, SQL

**Concepts/Coursework:** Machine Learning, Systems and Networks, Data Structures and Algorithms, Agile/Scrum, Web Development (Self-Taught), Android/iOS Development (Self-Taught)

**Frameworks/Technologies:** TensorFlow, Keras, Node.js, PostgreSQL, MongoDB, Git, InfluxDB, AWS, React.js