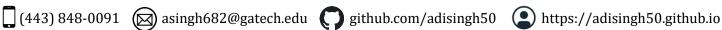
ADITYA SINGH







EDUCATION

Georgia Institute of Technology, Atlanta, GA

Expected Graduation Date: May 2022

Bachelor of Science, Computer Science

GPA: 4.00

Concentrations: Intelligence & Theory

WORK EXPERIENCE

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 ISON 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

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

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