

# Abdullah Shah

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## EDUCATION

### GEORGIA TECH

#### MS IN COMPUTER SCIENCE

Grad. May 2022 | Atlanta, GA

#### Specialization:

Machine Learning

#### BS IN COMPUTER SCIENCE

Grad. May 2021 | Atlanta, GA

College of Computing

#### Specializations:

Intelligence &

Information Networks

Cum. GPA: 3.9 / 4.0

## COURSEWORK

Data Structures & Algorithms

Database Systems

Systems & Networking

Computer Vision

Cloud Computing

Machine Learning

Artificial Intelligence

## SKILLS

#### Languages:

Java • Python • SQL

JavaScript • HTML5 • CSS3

C • Shell • Ruby •  $\text{\LaTeX}$

#### Framework & Tools:

Pandas • Numpy • Matplotlib

Scikit-Learn • Pytorch • Heroku

Flask • Jinja • Apache Airflow

Tensorflow • GCL

#### Google Cloud Services:

Firebase • Firestore • BigQuery

Kubernetes Engine • AutoML

#### Amazon Web Services:

Glue • DynamoDB • S3

Athena • CloudFormation

RDS • VPC • QuickSight

#### Software:

iOS • Android • Unix Environments

## ORGANIZATIONS

#### Student Clubs:

GT Muslim Student Association

GT Hyperloop

GT ML & AI Agency

#### Volunteering

Northside Hospital Volunteer

MIST Atlanta Competitions Chair

## EXPERIENCE

### GOOGLE | SOFTWARE ENGINEERING INTERN

May 2021 – Aug 2021 | Mountain View, CA

- Utilized novel ML Weak Supervision techniques to automate the generation of image classifiers that enforce Google Ads policies across image-based ads.
- Engineered an advanced method that creates situational annotations for millions of images through object detection algorithms and encodes human-domain knowledge into ML systems.
- Deployed ML workflows that generate probabilistic training labels for millions of images and train discriminative deep neural network classifiers.

### AMAZON | SOFTWARE ENGINEERING INTERN

#### AMAZON WEB SERVICE (AWS) - EC2 CORE PLATFORM

May 2020 - Aug 2020 | Seattle, WA

- Built a scalable and secure Data Lake to centralize siloed EC2 internal data using AWS Lake Formation and integrate with other native AWS solutions.
- Orchestrated and deployed ETL workflows to extract, transform and load real-time data from AWS data stores such as DynamoDB, RDS (MySQL), S3, Redshift and Athena using Python Apache Spark Glue jobs and crawlers.
- Automated the creation of 25+ nested AWS CloudFormation stacks that update and maintain resources for 150+ internal AWS production service accounts using Python and YAML.
- Engineered a VPC (Virtual Private Cloud) Network in conjunction with an Elastic Network Interface to tunnel network traffic to and from internal secure AWS networks.

### THE HOME DEPOT | SOFTWARE ENGINEERING INTERN

#### APPLIED MACHINE INTELLIGENCE

May 2019 - Aug 2019 | Marietta, GA

- Worked with Machine Learning engineers to create ML models to improve inventory record inaccuracy detection by 75%.
- Utilized XGBoost and Scikit-Learn for designing Supervised Machine Learning models and Keras for Feedforward Neural Networks to predict inventory discrepancies.
- Orchestrated ETL (Extract, Transform, Load) pipelines with Apache Airflow and queried daily database with Google Bigquery.
- Integrated Google Cloud Platform services for Data Analytics - Composer and BigQuery, Storage - Cloud Storage and Computation - Kubernetes Engine.

### FRAUDSCOPE | DATA SCIENTIST INTERN

May 2018 – Aug 2018 | Atlanta, GA

- Created database application with SQL & Python to perform measurements and analyses across 360 million records on private healthcare database.
- Collaborated with data science team to develop and test performance algorithms in Python - led to a 15% increase in speed of searching algorithms.

## SELECTED PROJECTS & ACTIVITIES

### MIST ATL MOBILE APPLICATIONS COMPETITION | 1ST PLACE

March 2018

- Created a social media Android Mobile Application on which users post messages, images and videos to an interactive real-time feed. Developed Backend Server using Google Firebase with realtime database, cloud storage and authentication.