

# Nahian Afsari

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## EXPERIENCE

### STATE FARM LABS | SOFTWARE ENGINEER

Feb 2020 - Present | Dallas, TX

- Designed and implemented an auto-generation tool that automated manual building of YAML Argo Workflows, reducing processing time by 90%
- Implemented data transformations through cleaning, converting and flattening the data for models
- Optimized model performance by conducting performance testing on models to find bottlenecks.

### AMERICAN EXPRESS | SOFTWARE ENGINEER INTERN

Jun 2019 - Aug 2019 | New York, NY

- Designed and implemented a scalable architecture for a voice search assistant for an internal application
- Extracted meaning out of user query using an NLP Word2Vec model
- Designed and implemented an efficient search algorithm to rank results
- Implemented an algorithm for the application to learn over time.

### STATE FARM | SOFTWARE ENGINEER INTERN

Jan 2019 - May 2019 | Sep 2019 - Dec 2019 | Dallas, TX

- Built a REST API to add features for card control functions such as changing pin number, activating a card, freezing a card etc
- Improved customer experience for all the mobile banking services provided by State Farm with features mentioned above

### UT DALLAS | UNDERGRAD RESEARCHER IN ARTIFICIAL INTELLIGENCE

Aug 2018 - Dec 2018 | Dallas, TX

- Developed a Used Car Recommender System with Answer Set Prolog while working under the Department Head of Computer Science, Dr. Gopal Gupta
- Used Common Sense Reasoning as our AI technique and defined rules based on financial literature
- Reduced a data set of used cars to generate a single answer set of best options for a car based on user input of budget & car qualities

## PROJECTS

### Personal Website

Languages used : HTML, CSS, JavaScript

- Designed and implemented a personal website with mobile compatibility, browser consistency, & user friendly navigation.
- Implemented an interactive UI to display personal projects and a gallery for my artworks.

### Accidents Classifier

Languages used : R

- Predicted accident severity using a large dataset based on road conditions.
- Cleaned and did feature engineering on the dataset to contain only the pertinent information.
- Explored different classification algorithms such as kNN, Naive Bayes, Logistic Regression etc. to build a model with high accuracy.

## EDUCATION

UT DALLAS

BS IN COMPUTER SCIENCE

GPA : 3.8/4.0

Graduation : Dec 2019

## SKILLS

### PROGRAMMING

Experienced :

Java • Python

Proficient :

C • C++

Familiar :

JavaScript • R

### FRAMEWORKS & TOOLS

Spring Boot • MongoDB

Github • Spark • Flask

Familiarity with a few Amazon Web Services (AWS)

## COURSEWORK

Machine Learning

Artificial Intelligence

Advanced Algorithm Design & Analysis

Database Systems

Operating Systems

C/C++ programming in Linux

## LINKS

Github: [github.com/nahianAfsari](https://github.com/nahianAfsari)

LinkedIn: [www.linkedin.com/in/nahian-afsari](https://www.linkedin.com/in/nahian-afsari)

Portfolio : [nahianafsari.github.io](https://nahianafsari.github.io)

## AWARDS

2019: Academic Excellence Award

2017,2018 : Dean's List

2016 : Young Masters Art Competition Winner

2016 : Recipient of Excellence in Education Math Challenge Scholarship