

# Mahan Das

[mxd190022@utdallas.edu](mailto:mxd190022@utdallas.edu) | [mahandas.me](http://mahandas.me) | [linkedin.com/in/mahandas](https://www.linkedin.com/in/mahandas) | [github.com/mahandas](https://github.com/mahandas)

Mob: +1 (682)-256-3480 | Seeking Summer/ Fall 2020 Internship.

## EDUCATION

The University of Texas at Dallas, Masters in Computer Science (3.77/4.00)  
College of Engineering, Pune, Bachelor's in Electronics & Telecomm

Expected May 2021  
May 2017

## TECHNICAL SKILLS, INTERESTS AND RELEVANT COURSES

- **Programming/Scripting Languages:** JAVA, Python, C++, C#, SQL, R, C, JavaScript, JQuery, VB.NET
- **Database:** MySQL, MongoDB, SQL server
- **Web Technology:** Angular, HTML 5, Flask, VB.NET, Socket-IO, Web Sockets, D3.js, SOAP, REST, Micro-services
- **Versioning and Deployment Tools:** JIRA, SVN, GitHub, Docker
- **Machine learning tools:** OpenCV, Pandas, Numpy, Keras, scikit-learn, TensorFlow, Octave, PyCharm, Jupyter
- **Message Queues and Frameworks:** ActiveMQ, Solace, RabbitMQ, ZeroMQ, Redis, .NET core, Flask, Django
- **Coursework:** Data Structures & Algorithms, OS, Discrete Structures, Machine learning, Computer Vision, NLP, CNN

## PROFESSIONAL EXPERIENCE

The University of Texas at Dallas      Teaching Assistant/ Grader      Sept 2019 – Current

- Gave lecture on Discrete Mathematics with problems involving Rules of inference, Boolean logic and relations.
- Grading exams, quizzes and home-works/ assignments on Discrete math's and Algorithms.

FinIQ Consulting Ltd      Software Developer      June 2017 – July 2019

- Architected and accomplished a data driven model for streaming data by assigning asynchronous tasks and Lambdas to existing WCF services. Slashed 94% of latency in message transmission by achieving 76ms response with the new distributed architecture.
- Created SOAP and REST APIs for lightweight streaming of real time data between FIX engine and Web Socket's.
- Extensive experience in writing SQL stored procedures, User Data Types, Indexes, Triggers, Functions, Worker events in MySQL.
- Implemented Financial Information exchange protocol using TCP/IP sockets and message brokers (ActiveMQ, SQL), hardware systems (Solace) in Java for over 5 major banks (American & Asian) for Options, Futures, Swaps and Option strategies.
- Designed and developed a FIX session-based routers to act as a load balancer for routing multiple initiator messages.

Goldman Sachs      Summer Analyst Internship      May 2016 – July 2016

- Automated the architecture of manual archiving of daily commits to server, as part of Platform Solutions team, to computerize operation divisions tasks. Designed and created Angular web page to upload and execute java package.
- Presented and showcased the project to the entire Ops-Division including teams from different locations, during intern fair.

## ACADEMIC PROJECTS

- Designed and constructed a **File System** as a modification to the Linux V6 File system as part of OS final project
- **Real Time Twitter Sentiment analysis:** Implemented spark streaming generated sentiments of trending tweets
- **Vein-Detection, Final year Project' 17:** Developed a device to **determine the point of insertion of needle** in the patient's vein leveraging Infrared Array of lights, IR filter camera to stream video of patients arm with veins

## ADDITIONAL PROJECTS

- **@AL.FRED, EMTechHack'19 (3<sup>rd</sup> Position):** Mixed Lingual Chat web application for conversions in users chosen language, assisted by a bot(Alfred) trained English corpus using tensor flow and **face detection for age verification** of users.
- **TemoCtor, HackUTD'19:** Built an automated interviewing web application with speech to text and classification using kaggle dataset. Converts interview questions into audio output and records answers for post interview review.
- **YouRead, Alumni Start up Contest'16 (2<sup>nd</sup> Position):** To help people with visual disability to read basic text in pages, created a hardware prototype that captures text in images and **converts to audio in real time** for users to listen to audio content.

## CERTIFICATIONS

Mongo DB basics, Amazon Web Services for Architects Essential Training, Advanced SQL, Java Lambda Expressions, Designing RESTful APIs, Predictive Modeling Strategy at Scale, Python specialization.

## ACTIVITIES

3<sup>rd</sup> Position in EMTechHack'19; Member of Grads of CS'19; Participated in EBay ML Challenge'19, HackUTD'19, U-hack Med'19