

MAHDIHUSAIN MOMIN

Analyst, Securities Division, Goldman Sachs
Bachelors and Masters in Computer Science
Indian Institute of Technology, Delhi

+91 9717265426

@ mahdihusainmomin@gmail.com

linkedin.com/in/mahdihusainmomin/

EXPERIENCE

Technology Analyst

Goldman Sachs

May 2019 – Present

- Work in Client Connectivity Team for low latency Goldman Sachs Electronic Trading platform named Atlas.
- Build and productionized regression framework for Client Customization Rules.
- Working on creating automated test generation for FIX client order state transitions.

INTERNSHIPS

Summer Technology Analyst

Goldman Sachs

May 2018 – July 2018

- Created end-to-end health monitoring system for microservices.
- Deployed consul server and added service registration support in microservices.
- Created consolidated dashboard for microservices health monitoring using ReactJS.
- Deployed the application in integration environment.
- Received and accepted Pre-Placement Offer.

Data Scientist

HSBC Software Development

June 2017 – July 2017

- Developed a machine learning model for user question answering from company database.
- Added support of feedback to the model.
- Demonstrated the use of the model to eliminate manual search time.
- Received Pre-Placement Offer.

PROJECTS

Social Network Analytics

Prof. Sayan Ranu & Prof. Amitabha Bagchi

January 2018 – May 2018

- Developed extremely fast algorithm to detect collusion on large social networks.
- Algorithm involves identification of cohesive subgraphs over a period of time.
- Analyzed K-core as the definition of cohesive subgraph.
- Research paper submitted for review in ICDE,2020.

Toy Self Driving Car

Raghavendra Singh, IBM India Research Lab

July 2017 - November 2017

- Built a toy self driving car using Raspberry Pi and deep learning model.
- Collected the image dataset by driving car using remote control.
- Implemented lightweight convolutional neural network to make car turn decisions in real-time.

Digital Makeup Transfer

Prof. Prem Kalra

September 2017 - October 2017

- Developed an automated tool to transfer makeup from one face to another.
- Used techniques such as face alignment, layer decomposition, skin detail, color transfer.
- Developed the application in python using OpenCV library.

Unix Kernel Shell

Prof. Sorav Bansal

January 2017 - April 2017

- Built a simple Unix based kernel from scratch in C++ and x86 assembly language.
- Designed a shell on VGA screen and included features like threads, coroutines, and scheduling.

Artificial Intelligence bot for the deterministic strategy game - TAK

Prof. Mausam

September 2016 - November 2016

- Designed an AI bot for playing the deterministic strategy game, Tak.
- Implemented the bot using Adversarial Search algorithm Expecti-Minimax.
- Used alpha-beta pruning and heuristics to reduce depth of search.

ACADEMIC DETAILS

Bachelors & Masters in Technology Computer Science & Engineering

Indian Institute of Technology, Delhi

2014 - 2019

COURSES

- Data Structures and Algorithms
- Analysis and Design of Algorithms
- Data Mining
- Machine Learning
- Deep Learning
- Natural Language Processing
- Extreme Classification
- Artificial Intelligence
- Numerical Algorithms
- Digital Image Analysis
- Optimization Methods
- Probability & Stochastic Processes
- Computer Networks
- Parallel & Distributed Programming
- Operating Systems
- Cloud Computing
- Database Management Systems
- Programming Languages
- Logic for Computer Science

TECHNICAL SKILLS

Java

GC free Java

Python

OCaml

Matlab

C++

ReactJS

HTML5

CSS

JavaScript

Guice

OpenCV

SQL

PyTorch

Android App Development

Linux

CO-CURRICULAR ACTIVITIES



Teaching Assistant

- Programming Languages (Spring 2019)
- Data Mining (Fall 2018)



Table-Tennis Hostel Captain

Lead the hostel team in inter-hostel table-tennis tournaments (2015-2016)



NGO

Member of the Kanodar Yuva Group