MAHDIHUSAIN MOMIN

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

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EXPERIENCE

Analyst
Goldman Sachs — May 2019 – Present

- Part of Client Connectivity Team to build Low Latency Goldman Sachs Electronic Trading platform.
- Build and Productionized Regression Framework for Client Customization Rules.
- Build an Automated Test Generation Framework for FIX Client Order State Transitions.
- Working on adding Good Till Order support in new Trading Platform.

INTERNSHIPS

Summer 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 to be submitted for review in KDD conference.

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 of Technology
Computer Science & Engineering
Indian Institute of Technology, Delhi
2014 - 2019
BTech CGPA : 7.586/10
MTech CGPA : 8.430/10

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