

MAHIM MAHBUB | Jr. Software Engineer

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Mahim1997

mahim-mahbub

EDUCATION

B.Sc. Computer Science and Engineering  Feb. 2016 - Mar. 2021

Bangladesh University of Engineering and Technology

CGPA: 3.93/4.00 (Position: 4th/142)

Relevant Courses: Object Oriented Programming, Data Structures & Algorithms, Algorithm Engineering, High Performance Database, Computer Security.

WORK EXPERIENCE

REVE Systems Ltd.

 Feb. 2021 - Present

Jr. Software Engineer

- Contributed to **Machine Translation** project.
- Designed, implemented and tested the first version of shipped Mobile App.

   

- As a part of ML RnD team, experimented with various architectures for machine translation, including Transformers.

 

SELECTED PROJECTS

wQFM: Highly Accurate Genome-scale Species Tree Estimation from Weighted Quartets  Mahim1997/wQFM-2020

- Developed new codebase to efficiently handle moderate to large datasets in terms of both running time and memory.
- Performed extensive statistical analysis to implement a novel dynamic partitioning scheme based on data distribution.
- Citation:** Mahim Mahbub, Zahin Wahab, Rezwana Reaz, M Saifur Rahman, Md. Shamsuzzoha Bayzid, wQFM: Highly Accurate Genome-scale Species Tree Estimation from Weighted Quartets, Bioinformatics, 2021;, btab428 <https://doi.org/10.1093/bioinformatics/btab428>

Audio Feature Extraction and Classification (Ongoing)

- Curated a dataset of > 5k audio files (average length: 5.2 mins)
- Extracted various features including MFCCs, mel-spectrograms, ZCS & RMS.
- Experimented with models including CNN, Bi-LSTM & Bi-GRU.

Censorship Analyzer

 Mahim1997/Censorship-Analyzer

   

- Implemented network based modules using scapy, tshark, and TOR API.
- Used Django framework for Web Platform, Java/JavaFX for Desktop Platform and SQLite for Database Backend.

Comprehensive analysis of CoMP networks

 Mahim1997/CoMP-JT-Simulation

 

- Developed codebase to perform simulations for 5G-CoMP networks under various conditions including Conventional, DPS and JT.
- Experimented with new metrics to efficiently model the scenario of call drop.

University Hall Management System

 Mahim1997/Hall-Management

  

- Designed and developed a fully functioning University Hall Management System for Desktop Application with user friendly UI using JavaFX.
- Implemented efficient DBMS queries and procedures using PL/SQL with Oracle as Database backend.

SKILLS

Programming & Scripting Languages

     

Databases

   

Frameworks and SDKs

   

Environments & Tools

   

Machine Learning Libraries

   

ACHIEVEMENTS



Dean's List Awardee

Received Dean's List award for all terms of undergraduate program.



Champion team in COVID-19 Idea Contest, 2020

 Mahim1997/VChamber

Idea contest hosted by Computer Society IEEE, BUET Branch.



Second Runner-Up in Poster Competition on Green Technology, 2020

 Rafi-ur-Rashid/Shongjog

Poster presentation competition hosted by Bangladesh Research and Innovation Society (BRIS)



University Merit Scholarship

Received University Merit Scholarship for all terms of undergraduate program.



9th place holder in 6th Bangladesh Chemistry Olympiad, 2014

National Chemistry Olympiad hosted by Bangladesh Chemical Society



Recipient of Edexcel High Achiever's awards (World's Highest)

A-Levels: Chemistry, Physics
O-Levels: Mathematics B

REFERENCES

Dr. Md. Shamsuzzoha Bayzid

Associate Professor

Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology

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