

Moumita Choudhury

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Education

B.Sc. in Computer Science and Engineering

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, UNIVERSITY OF DHAKA

- **CGPA:** 3.84/4.00
- Related Coursework: [Curriculum of Undergraduate Program](#)

Dhaka, Bangladesh

January 2016 - January 2020

Experience

Cognitive Agents and Interaction Lab, University of Dhaka

RESEARCH ASSISTANT

- Study security and game theoretic concept to improve security resource allocation problem.

Dhaka, Bangladesh

February 2020-present

Farida Begum Women Empowerment Scholarship 2019

MENTOR (PROGRAMMING INSTRUCTOR)

- Worked as the programming instructor of female students of Department of Computer Science, University of Dhaka.

Dhaka, Bangladesh

January 2019-December 2019

Honors & Awards

- 2019 **1st Runner Up**, Code Samurai 2019 - Hackathon by BJIT
- 2018 **10th position**, NSU Inter University Girls' Programming Contest
- 2017 **5th position**, National Girls' Programming Contest
- 2017 **34th position**, SUST Inter University Programming Contest
- 2013 **Divisional Winner, Dhaka**, National Creative Talent Hunt 2013
- 2012 **Second Runner up**, Regional Mathematical Olympiad, Dhaka

Publications

- **Moumita Choudhury**, Saaduddin Mahmud, and Md. Mosaddek Khan. A Particle Swarm Based Algorithm for Functional Distributed Constraint Optimization Problems. In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence*, 2020
- Saaduddin Mahmud, **Moumita Choudhury**, Md. Mosaddek Khan, Long Tran-Thanh, and Nicholas R. Jennings. AED: An Anytime Evolutionary DCOP Algorithm. In *Proceedings of the 19th International Conference on Autonomous Agents and Multi-Agent Systems*, 2020
- Saaduddin Mahmud, Md. Mosaddek Khan, **Moumita Choudhury**, Long Tran-Thanh, and Nicholas R. Jennings. Learning Optimal Temperature Region for Solving Mixed Integer Functional DCOPs. In *Proceedings of the 29th International Joint Conference on Artificial Intelligence*, 2020
- Amit Sarker, Abdullahil Baki Arif, **Moumita Choudhury**, and Md. Mosaddek Khan. C-CoCoA: A Continuous Cooperative Approximation Algorithm to Solve Functional DCOPs. In *Proceedings of the 19th International Conference on Autonomous Agents and Multi-Agent Systems*, 2020. (Extended Abstract)
- **Moumita Choudhury**, Saaduddin Mahmud, and Md. Mosaddek Khan. *Applying Population-Based Algorithms to Solve Large (F)DCOPs*. Undergraduate Thesis on Multi-Agent Coordination and Reasoning, 2019

Skills

Languages	Python, Java, C/C++
Framework	Flask
Databases	MySQL, MongoDB
Technologies	HTML/CSS, JQuery
Library	Pytorch

Projects

My Food Diary ([See project](#))

FOOD HABIT TRACKING APP

2018

- An android app for keeping track of daily food and water consumption and track weight.
- Genetic algorithm based automated food suggestions and goal oriented motivation.

Track Me ([See project](#))

PERSONAL VEHICLE TRACKING AND MANAGEMENT

2017

- An android app for monitoring personal vehicle.
- Clustering based approach to detect anomaly in driving pattern and notify the car owner.

AL.GO ([See project](#))

ALGORITHM VISUALIZER

2017

- A java based demo project to visualize well known algorithms.
- Contains step by step visualization, codes, problem links on specific topic to help students learn faster.

CSEDU Book Club

BOOK SHARING AND REVIEW - WEB AND ANDROID APPLICATION

2019

- A website ([See project](#)) and an android app ([See project](#)) for book sharing and reviews for the reading club of department of CSE, University of Dhaka.

Other Experiences

Shabab-Murshid Development Foundation

Dhaka, Bangladesh

VOLUNTEER TEACHER, CO-ORDINATOR

2016-present

- Teaching and coordinating the math classes for underprivileged children of grade 6 to 10.
- Working as the coordinator of the annual study tour, cultural program and ensure participation in National Mathematical Olympiad, Bangladesh.

JENESYS 2.0

Japan

PARTICIPANT

2013

- Short Term Invitation Program funded by Japan International Cooperation Center

Reference

Dr. Md. Mosaddek Khan

- Assistant Professor, Department of Computer Science and Engineering
University of Dhaka
mosaddek@du.ac.bd