Moumita Choudhury

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Moumita_Choudhury6

Education

B.Sc. in Computer Science and Engineering *Dhaka, Bangladesh*

Department of Computer Science and Engineering, University of Dhaka *January 2016 - Present*

- **Expected CGPA:** 3.83/4.00 (7 out of 8 semesters)
- Related Coursework: Curriculum of Undergraduate Program

Experience

Cognitive Agents and Interaction Lab, University of Dhaka *Dhaka, Bangladesh*

Research Assistant *February 2020-present*

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

Farida Begum Women Empowerment Scholarship 2019 *Dhaka, Bangladesh*

Mentor (Programming Instructor) *January 2019-December 2019*

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

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

1. 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
2. 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
3. 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)
4. 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

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

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.

Reference

Dr. Md. Mosaddek Khan

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