MASHRUR RASHIK

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(+880)1729787963 ⋄ mashrur639@gmail.com

EDUCATION

University of Dhaka, Dhaka   *2016 - Present*
Bachelors in Science
Department of Computer Science and Engineering
Thesis: Exploring Ways to Scale-up Exact Inference Based DCOP Algorithms in Multi-Agent Systems
Advisor: Dr. Md. Mamun-or-Rashid, Dr. Md. Mosaddek Khan
Current CGPA: 3.91/4.0 (7/8 Semesters)

Notre Dame College, Dhaka   *2013 - 2015*
Higher Secondary Education
GPA: 5.0/5.0

Rajuk Uttara Model College, Dhaka   *2013*
Secondary Education
GPA: 5.0/5.0

PROJECTS

Xupri.com, An E-commerce Search Engine
[Website Link]

· **Description:** An e-commerce website consisting of products from different fashion brands. A user can compare the products to make the best choice among similar products through comparison. Besides, a complete delivery system has been implemented.

CS_Simulate, A Web Based Algorithm Simulator

· **Description:** A web-based algorithm simulator developed by me along with my two other team members. Includes simulation of machine learning algorithms like K Means Clustering, Linear Regression, Logistic Regression, algorithms from linear algebra like Eigen Value Decomposition, Gaussian Elimination, Gauss Jordan Elimination, algorithms from database management like Static Hashing, Dynamic Hashing and different Iterative Dynamic Programming algorithms.

Athletio, An Android Based Fitness Application
[GitHub]

· **Description:** Athletio is a fitness application for android devices. It can be used for workout tracking of different types. Besides it also includes the google map feature for finding a nearby place. It includes a chatbot for providing medical tips, which is an AIML bot. There is also social media for sharing photos and updating workout status. The social media includes its very own messenger. Includes VR to provide users a different environment during workouts.

CS_Classroom, A Web Based Classroom Management Application
[Website Link]

· **Description:** A fully functional classroom management application. Includes features like creating a class with unique class code and enrolling students. It contains a forum for students to post articles and an online IDE for Computer Science students to be able to code and at the same time, execute their code online.

Shorai, Hotel Booking and Management Application
[Website Link]

· **Description:** A web application for hotel search. Includes fully functional hotel management.

Search Engine, Desktop Application

· **Description:** Java-based desktop application, which can do both text and image search. Used text matching for any queries and image name matching in case of image search. Users are also able to search over popular search engines like, google, yahoo, duckduckgo.

Zombie Crush, Desktop Game
[GitHub]

· **Description:** A desktop game developed using cpp and SFML graphics library.

TECHNICAL STRENGTHS

Machine Learning Libraries	Scikit Learn
Programming Languages	C/C++(Most preferred), JAVA, Python
Mobile Application Development	Android
Database	MySQL, Oracle SQL, MongoDB, Firestore
Cloud Platform	Google Firebase
Web Programming	JavaScript, Python(Flask)
Development	Software Design Pattern, Git

PROBLEM SOLVING

Reached Max. rating of 1630 (Expert) in Codeforces [Handle: ricky_shen]

Solved over 1206 problems on different Online Judge:

- Codeforces Handle: ricky_shen

- UVA Handle: Zero_639

- LightOj Handle: mashrur rashik

- Spoj Handle: zero_639

- TimusOj Handle: Mashrur Rashik

- Vjudge Handle: Hello_world123, mashrur29, DU_Damacy, DU_Infinitum, Paranoid_android

- Codechef Handle: zero_639

MOOC COURSES

Machine Learning on Coursera. [Certificate]

Fundamentals of Reinforcement Learning on Coursera. [Certificate]

ACHIEVEMENTS

Code Samurai Inter-University Hackathon   2019
Champion [Standings]

· Team: DU_XUPRI

Student to Startup, Chapter 2 — 2019
Winners
· Team: Xupri.com

DUITS IT Festival — 2018
Runners-up
· Category: IT Project Showcasing

Banglalion-SUB Inter University Programming Contest — 2018
36th Position [Standings]
· Team: DU_Katamari_Damacy

City University Inter University Programming Contest — 2017
5th Position [Standings]
· Team: DU_Inferno

RESEARCH AND PUBLICATIONS

Title: Speeding Up Distributed Pseudo-tree Optimization Procedure with Cross Edge Consistency to Solve DCOPs
Authors: Mashrur Rashik, Md. Musfiqur Rahman, Md. Mamun-or-Rashid, Md. Mosaddek Khan, Long Tran-Thanh, Nicholas R. Jennings

Title: Improving Solution Quality of Bounded Max-Sum Algorithm to Solve DCOPs involving Hard and Soft Constraints
Authors: Md. Musfiqur Rahman, Mashrur Rashik, Md. Mamun-or-Rashid, Md. Mosaddek Khan

Title: Athletio: Data Driven Fitness Application
Authors: Md. Tavir Alam, Mashrur Rashik, Kashob Kumar Roy, Md. Mofijul Islam
Published in: International Conference on Emerging Technologies in Data Mining and Information Security, 2018, Kolkata, India

GRANTS

Bangabandhu Innovation Grant — 2019
The BIG grant, worth BDT 1 million, was awarded to the top 10 startup ideas in Student to Startup, Chapter 2 from over 2000 teams.

REFERENCE

Dr. Md. Mosaddek Khan
Assistant Professor, Department of Computer Science and Engineering
University of Dhaka