

SHAILY ROY

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🌐 ShailyRoy

EDUCATION

■ MSc in Computer Science

BRAC University

📅 Jan 2020 - Ongoing

CGPA: 4 out of 4

■ BSc in Computer Science and Engineering

BRAC University

📅 Jan 2014 - Dec 2018

■ SSC and HSC in Science

Dinajpur Board

📅 Jan 2012 - Apr 2014

GPA: 5 without 4th subject out of 5

STRENGTH

Java

C++

Python

Latex

git

Competitive programmer

Solved over 125 problems from UVA and also solved over 500 problems from other online judges like Vjudge, Codeforces, Codechef, hackerrank, Lightoj, A2oj, Hackerearth and so on

MOST PROUD OF



Champion - NSU Inter University Girls' Programming Contest'18

My team BRACU_Codefairies ranked 1st in this competition. We have also awarded for being 1st in Dhaka board and also for solving two problems at first



4th - National girls' programming contest'17



3rd - National Girls' Programming Contest online preliminary'17



4th - Code IT girl Programming contest'17



4th - Ada Lovelace individual programming contest'17

This was an individual programming contest specially meant for girls. I solved 6 problems out of 6



Vice Chancellor's certificate

For academic excellence and good behavior in residential campus



70% Merit Based Scholarship

For maintaining CGPA of 3.7+ and obtaining Golden GPA 5 in HSC and SSC.

EXPERIENCE

■ Lecturer, Computer Science and Engineering

BRAC University

📅 May, 2019 - Ongoing

- Maintaining all the academic and administrative activities as a lecturer
- Designed new course CSE419 and prepared all the materials of that course based on competitive programming skill
- Prepared contents for online teaching in BUX platform

■ Co-advisor

BRAC University Computer Club

📅 Aug, 2019 - Ongoing

- Leading contest related club activities

■ Lecturer, Software Engineering

Daffodil International University

📅 Feb, 2019 - May, 2019

- Maintained all the academic and administrative activities as a lecturer

■ Front End Developer

Appscore ltd

📅 Jan, 2019 - Feb, 2019

- An International Company focused on Open source development. I worked on JavaScript there

■ Student Tutor

BRAC University

📅 Jan, 2017 - Dec, 2018

- I was student tutor of both CSE and MNS department. Took labs and extra theory classes and evaluated assignments, quizzes

■ Mentor

BRAC University Programmers Chapter

📅 2017 - 2018

- Organized several workshop on programming skill development for BRACU girls and also for IEEE Xtreme Contests.

■ Problem Setter

BRAC University

📅 Apr, 2017 - ongoing

- Arranged contest in virtual judge and Toph.co in BRAC University Intra Programming Contests

■ Instructor

The Tech Lab (An institute focused on engineering for children)

📅 2016 - 2017

- Worked on some R&D projects

PAPER ACCEPTED

Topic: "Bitcoin Price Forecasting using Time Series Analysis"

IEEE Conference: International Conference on Computer and Information Technology (ICIT 2018)

Contribution: Contributed as a 1st author

Short Description: This work is done on four year's bitcoin data based on time series approaches especially autoregressive integrated moving average (ARIMA) model to predict its volatility and the accuracy is 90%.

PROJECTS

All source codes are available in github.com/ShailyRoy

- **BBpress forum and Woocommerce site**
It was project for software for human company. Developed a business based forum and also a cart page using BBPress and Woocommerce, also worked on menus and other pages using raw html, css and php
- **Android project on Women's Safety**
It was a very basic hackathon project. Worked on the designing and communication part of this project, worked in android studio
- **Home automation system using Arduino**
It was a hardware based project. Contributed in both implementation and designing part
- **Fish Monitoring System using MSP430**
Basically a hardware based project, used proteus for coding and contributed in both implementation and designing part
- **Bridge Automation System using FPGA**
Basic FPGA based project focused on VHDL language, contributed in both implementation and designing part

COURSES COMPLETED:

- Machine Learning Foundation - A case Study approach from Coursera, 2017
- Machine Learning - By Mahbubul Alam Majumdar
- Discrete Mathematics - By Mahbubul Alam Majumdar

EXTRA ACTIVITIES

Co-supervisor, Brac University:

- Real Time Translation from Sign Language to Written Language in both Bengali and English Language using Deep Learning, spring 2021

Participant, International Camp and Contests:

- International workshop on Parallel Programming distributed Computing System (IPDC) Jagannath University, 2019
- International Collegiate Programming Contest Dhaka Regional 2018

Participant, National Camp and Contests:

- National Collegiate Programming Contest 2017
- National girls programming Camp 2017
- National Hackathon 2017
- Power and Energy Hackathon 2018

REFEREES

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