

Monikrishna Roy

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EDUCATION

MS in Computer Science & Engineering, GPA: 3.73/4, Jahangirnagar University, Bangladesh *Mar 2018 - Apr 2019*
BS in Computer Science & Engineering, GPA: 3.68/4, Jahangirnagar University, Bangladesh *Jan 2013 - Feb 2018*

RESEARCH INTERESTS

Machine Learning, Artificial Intelligence and Computer Vision, Data Mining, Big Data, Data Structures and Algorithm Analysis, Cryptography, Security and Privacy.

EXPERIENCE

Samsung R&D Institute Bangladesh (SRBD), Software Engineer *Apr 2019 - Present*
Developing web applications using Angular & Java. Working on B2B projects to provide various solutions. Doing research on mobile application field to improve performance and develop new features.

Okayama University, Japan, Collaborative Researcher *17 Aug 2018 - 06 Sep 2018*
Worked on Elliptic Curve Cryptography under the supervision of Prof. Yasuyuki Nogami at Information Security Lab. Tried to gain secret information from side channel attack for order 4 rational points of BLS-12 Curve.

Jahangirnagar University, Bangladesh, Technical Assistant *Sep 2017 - Feb 2018*
Worked at computer laboratory in Department of Computer Science and Engineering to help students in lab-works and researches. Instructed students to use various technologies in laboratory as well as in research.

Jahangirnagar University, Bangladesh, Programming Instructor *Jan 2016 - Dec 2018*
Trained students of Department of Computer Science and Engineering for efficient problem solving using algorithms, data structures and programming languages.

PROGRAMMING ACHIEVEMENTS

Participation, ACM International Collegiate Programming Contest (ICPC), Dhaka Regional from 2014 to 2017.

Participation, National Collegiate Programming Contest (NCPC), Bangladesh from 2014 to 2017.

Online Contest Ratings:

- TopCoder: **1273**, Codeforces: **1800**, Codechef: **2102**, Hackerrank: **2066**. (Among 20%)

TECHNICAL EXPERTISE

Skill	Algorithms, Data Structures and Problem solving
Languages	C, C++, JAVA, Python
DBMS	MySQL, MongoDB
Others	Angular, Android, Apache Maven, Arduino, Git, LaTeX, MATLAB

RESEARCH WORKS

Automatic Image Stitching Using Feature Based Method.

Study on Side Channel Attack Using Order 4 Rational Points for BLS-12 Curve.

Classification of Alzheimer's Disease from Magnetic Resonance Imaging using Siamese Network.

MAJOR SOFTWARE PROJECTS

Automatic Image Stitching Tool: Designed a flowchart of image stitching process and developed a tool to stitch images using MATLAB.

Alumni Reunion Registration Management: A desktop based application of management system, used for registration purposes. It has three parts- (i) new registration entry, (ii) update entity, (iii) save and view list. Developed using Java Swing Gui, MySQL Server.

SELECTED COURSES

Engineering Statistics, Data Mining, Artificial Intelligence and Expert System, Artificial Neural Networks, Linear Programming and Algorithm Analysis, Operating Systems, Database Systems, Data Structures, Compiler Design, Graph Theory and Computational Geometry, Discrete Mathematics, Formal Language and Theory of Computation.

HONORS AND AWARDS

Technical Assistantship (2017-18), Govt. General Scholarship (2016-17), University Merit Scholarship (2012-15), High School Scholarship (General) (2007-08).