

Monikrishna Roy

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EXPERIENCE

Software Engineer, Google, USA

Jun 2022 - present

Working on YouTube Music, a music streaming service.

Graduate Research Assistant, University of Nevada, Reno, USA

Jan 2021 - May 2022

Worked on machine learning-related research projects in the bioinformatics field focusing on clustering and disease subtyping. Also, developed web applications to manage and analyze big data using different machine learning methods.

Software Engineer, Samsung R&D Institute Bangladesh (SRBD)

Apr 2019 - Jan 2021

Developed web applications using Angular & Java Spring Boot. Worked on B2B projects to provide various solutions. R&D on mobile application fields to improve performance and introduce new features.

Exchange Student, Information Security Lab, Okayama University, Japan

July 2018 - Aug 2018

Worked on a collaborative project at Information Security Lab. Involved in a project to gain secret information from side-channel attack using order 4 rational points of BLS-12 Elliptic Curve.

Technical Assistant, Jahangirnagar University, Bangladesh

Sep 2017 - Feb 2018

Worked at the computer laboratory in the Dept. of CSE to help students in lab and research works. Instructed students to use various technologies in the laboratory as well as in research.

Programming Instructor, Jahangirnagar University, Bangladesh

Jan 2016 - Dec 2018

Trained the students of the Dept. of CSE to solve different kinds of programming problems efficiently using appropriate algorithms and data structures.

COMPETITIVE PROGRAMMING ACHIEVEMENTS

- **Participation**, ACM International Collegiate Programming Contest (ICPC), Dhaka Regional from 2014 to 2017.
- **Participation**, National Collegiate Programming Contest (NCPCL), Bangladesh from 2014 to 2017.
- **Solved over 2500** coding problems on different online programming platforms, including various online contests.

Online Contest Ratings (Maximum):

- TopCoder: **1273**, Codeforces: **1800**, Codechef: **2102**, Hackerrank: **2066**. (Top 10%)

TECHNICAL EXPERTISE

Skills	Algorithms, Data Structures and Problem-solving
Languages	C, C++, R, Python, JAVA, JavaScript, TypeScript
DBMS	MySQL, MongoDB
Others	Git, Node.js, React, Angular, Spring Boot, Apache Maven

EDUCATION

MS in Computer Science & Engineering, GPA: 4.00/4.00, University of Nevada, Reno, USA	<i>Spring'21 - Spring'22</i>
MS in Computer Science & Engineering, GPA: 3.73/4.00, Jahangirnagar University, Bangladesh	<i>Mar'18 - Apr'19</i>
BS in Computer Science & Engineering, GPA: 3.68/4.00, Jahangirnagar University, Bangladesh	<i>Jan'13 - Feb'18</i>

MAJOR ACADEMIC PROJECTS & RESEARCH WORKS

Bangla Documents Classification using Transformer Based Deep Learning Models: A research publication where we have classified Bangla text documents with the most recent transformer or attention mechanism-based models.

Classification of Alzheimer's Disease: A MS thesis work to classify Alzheimer's Disease from Magnetic Resonance Imaging using Siamese Neural Network.

Automatic Image Stitching Using Feature Based Method: Designed a flowchart and developed a tool to stitch images automatically for BS final year project. Used MATLAB for implementation.

Tic Tac Toe with AI Algorithm: Designed and developed the tic-tac-toe game using the Minimax with alpha-beta pruning for AI course project. Command line program implemented using C++.

RESEARCH INTERESTS

Machine Learning, Deep Learning, Bioinformatics, Data Mining, Natural Language Processing.

HONORS AND AWARDS

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