

Md. Saiful

Looking for an entry-level Software Engineer or AI/ML Engineer position where I can leverage my skills in Python, C++, NLP, and competitive programming, along with my passion for cutting-edge problem-solving.

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Education

2019 – 2023 **B.Sc., Computer Science & Engineering**, East West University, Dhaka, Bangladesh.
CGPA 3.65 out of 4.00, ranked 14th among 210 students **Thesis**: MedicalBERT: A Medical Chatbot Built Using, BioBERT and GPT-2

Technical Skills

- **Programming Languages**: C, C++, Java, Python
- **Libraries & Frameworks**: Pandas, Matplotlib, Selenium, PyTorch, TensorFlow
- **Version Control & Collaboration**: Git, GitHub, SVN
- **Database Management Systems**: Oracle, MySQL, NoSQL, MongoDB
- **Web technologies**: HTML, CSS3, Django, Flask API, PHP, JavaScript, Node.js, JQuery, Wordpress

Experience

- August 2023 – Present **Graduate Teaching Assistant**, East West University, Dhaka, Bangladesh.
- Courses Taught: Algorithms, Data Structures, Object Oriented Programming, Machine Learning, AI.
 - Coached the teams of EWU programming club to their best performance in a competitive programming contest.
 - Developed a virtual lab that gave auto-generated feedback to help beginners learn to implement basic Machine Learning.
- June 2022 – May 2023 **Undergraduate Teaching Assistant**, East West University, Dhaka, Bangladesh.
- Courses Taught: Cyber Security, Structured Programming, Information System Design and Analysis
 - Wrote a backtracking based script that verifies if the students' course selection adheres to their degree requirements.
 - Developed Web Applications

Competitive Programming

- Programming Contest
- **10th** place - Inter University Programming Contest, 2022
 - Solved **200+** problems from various online judges and participated in online programming contests. ([StopStalk Profile](#))
 - Proficient in **DSA** - Solved multidisciplinary problems in data structures and algorithms. ([gitRepository](#))

Awards

ICO Best Presenter Award, 2023, Thailand.
Awarded by ICO-2023 for achieving excellence in paper presentation.

Publications

- Primary Author **MRI-Based Brain Tumor Classification Using Various Deep Learning Convolutional Networks and CNN**, [DOI](#), [ICO 2023](#).
- Primary Author **Brain MRI Classification for Alzheimer's Disease Based on Convolutional Network**, [DOI](#), [ICO 2023](#).
- Primary Author **Green Banking Through Blockchain-Based Application for Secure Transactions**, [DOI](#), [ICO 2023](#).
- Co-Author **Solving Hamiltonian Path Problem Using DNA Computing**, [GenCITY 2023](#).
- Primary Author **Education Certificate Storage and Verification using Blockchain and IPFS**, [ICO 2024](#).

Academic Projects

- ML Project **Real Time Garbage Collector**, [Stack](#): Python, Flask, 2023.
A novel approach for ensuring garbage collection in real-time from anywhere.
- Web. Eng. Project **Employee Management of Hotel Using Face Recognition**, [Stack](#): Django, Redis, Python, MySQL, HTML, CSS, 2022.
A website that recommends hotel rooms, Real-time employee management, allows users to search, share, review, write, and discuss rooms.
- Mathematics for CS Project **Credit Card Fraud Detection**, [Stack](#): Python, scikit-learn, 2021.
Credit Card Fraud Detection with Machine Learning model that will provide the best results in revealing and preventing fraudulent transactions

Voluntary Activities

- Taught Mathematics to underprivileged children at VBD from 2018 to 2019.
- Developed website on Question Answering in the **Quantum Method** Office at Banasree, Dhaka.
- Volunteered in several programs for street children organized by **Community Action**.