

MD OMAR FARUK MARUF

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PROFILE SUMMARY

I am a self-motivated and passionate individual looking to pursue a MS/PhD in Computer Science for more advanced knowledge and research. I have experience researching Computer Vision, High performance Cyber physical systems and IOT. Currently working as Software Engineer in Research and development, working with blockchain at SMC Labs BD. I have interest in Cybersecurity, AI, Blockchain, Automation and High Performance Cyber Physical systems. Experienced in Python and C++ programming languages (advanced), research, blockchain as well as presenting at conferences and constructing research papers.

EDUCATION

University of Global Village (UGV)

Feb 2020- Feb 2024

B.Sc. in Computer Science and Engineering

Last Semester CGPA: 3.80/4.00

Overall CGPA: 3.69/4.00

Relevant Modules: Mathematics I, II, & III, Discrete Mathematics, Data Structure, OOP, Parallel & Distributed Processing, Microprocessor & Assembly Language, Computer Architecture, VLSI Design, Pattern Recognition, Algorithm Design, Artificial Intelligence, Machine Learning.

EXPERIENCE

Software Engineer

Research and Development, [SMC Labs BD](https://smclabsbd.com)

June 2025 – Continuing

- I am working with: Blockchain Architecture | Research and Development | Coding with C++ | Open-source Code Research | Wallet and Protocol Design
- Mentoring the juniors and new interns.

Software Intern

Research and Development, [SMC Labs BD](https://smclabsbd.com)

Dec 2024 – May 2025

- I worked with documentations, collaborated with Senior Engineers and completed every task which was given.
- I have gained knowledge and practical experience with blockchain technology, decentralized applications, C++, mastering bitcoin open-source projects, research and development.

Python Trainer

Sheikh Russel School of Future, ICT Division

May 2024 – Oct 2024

- I worked as a Python trainer at secondary schools (class 6-10) under Sheikh Russel School of Future, ICT Division, Bangladesh.
- I taught the students basic Python (Data Structure, problem-solving, and basic console projects).
- My other responsibility was to prepare them for their next government funding project on Robotics.

PUBLICATION

Maruf, MD Omar Faruk, Md Riadul Islam, Md Jubayar Alam Rafi, Md Abu Sufian Shake, and Md Tariquul Islam. "Non-permissible Mobile Detection to Enhance Security in Bangladeshi Museum: A Multiprocess YOLO-Based Approach." In 6th [ICEEICT](https://www.ieee.org/publications_standards/publications/details/abstract/abstract.html?abstract_id=10534325), pp. 37-42. IEEE, 2024.

DOI: [10.1109/ICEEICT62016.2024.10534325](https://doi.org/10.1109/ICEEICT62016.2024.10534325)

ACHIEVEMENT AND FUNDING

Champion of imaGen Ventures Youth Challenge 2023

21th oct 2023

UNICEF Bangladesh, Generation Unlimited

They collected innovative ideas and around 200 teams had applied and only 11 teams were selected. We developed an automatic robot system "SYNERGY" which can detect and collect plastic wastes more efficiently (25% faster by implementing multi-process).

- We secured the Champion title and won \$1000 prize money.
- 3 days of training on the Art of Problem Definition.

Champion: Smart Entrepreneurs in District 2025

19th oct 2024

GP Accelerator, Grameenphone Ltd.

We proposed an Emergency Response Device idea with a prototype to address rising river water levels and fluctuations in pH and salinity, which pose flooding risks and impact agriculture.

- We secured the Champion title among the 17 different ideas and won 1,00,000 BDT prize money.

SKILLS

- **Programming Language:** Python, C++
- **Technology:** Blockchain, Computer Vision, Deep Learning, Robotics
- **Hardware:** Embedded Systems (Raspberry Pi, Jetson Nano)
- **Others:** Teaching, Teamwork, Leadership, Problem Solving, Communication.

RESEARCH INTEREST

Computer Vision | Blockchain | Real-time Autonomous Systems | Machine Learning | Security | High-Performance Cyber Physical System | Decentralization

EXTRA-CURRICULAR ACTIVITIES

Volunteer:

Volunteer for Bangladesh:

Oct 2023 - Now

- Active general member of Volunteer for Bangladesh (VBD).
- I worked in a team helping flood affected-people in my town.

Drubotara Youth Development Foundation (DYDF):

Nov 2024 - Now

- President of DYDF, Babuganj Branch
- Worked in my area for awareness raising, youth development, and education quality development.

LANGUAGE PROFICIENCY

- **Bangla:** Primary Language.
- **English:** IELTS Overall: 6.5 | Speaking: 6.5 | Listening: 6.5 | Reading: 6.0 | Writing: 6.5

REFERENCES

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