

Ittehad Saleh Chowdhury

Full-Time Lecturer (CSE), BRAC University, Dhaka, Bangladesh

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RESEARCH INTERESTS

Machine Learning, Artificial Intelligence, Networking, Mobile/Edge Computing, Deep Reinforcement Learning.

EDUCATION

University of Dhaka, Dhaka, Bangladesh

Bachelor of Science: Computer Science and Engineering

Jan 2020 — Dec 2024

CGPA: 3.83/4.00 (Top 5% of class)

Scholarshome School & College, Sylhet, Bangladesh

Higher Secondary School Certificate

June 2017 — Apr 2019

GPA: 5.00/5.00

EXPERIENCE

BRAC University

Full-Time Lecturer (CSE)

Dhaka, Bangladesh

June 2025 — Present

- Teaching CSE-220(Data Structures), CSE-421(Computer Networks), CSE-422(Artificial Intelligence) courses.
- Competitive Programming instructor for BRAC University Computer Club (BUCC).
- Contributing to research in AI/ML, LLMs and Edge Computing.
- Student Advisor: Helping students plan their career, understand the evolving Computer Science landscape.

Green University Research Group

Researcher

Dhaka, Bangladesh

January 2024 — Present

- Conducting research in networking, mobile/edge computing, and machine learning.
- Collaborating with peers via reading groups, seminars, and research discussions.

Turing (Contract)

Team Lead

Remote

Jan 2024 — June 2025

- Led a team of 35–40 developers to deliver high-quality training data and infrastructure for frontier AI models; led benchmarking campaigns, agentic workflows, and RLHF projects.
- Built and maintained data pipelines for large-scale training; scaled from 0 to a team of 150 developers within weeks and coordinated timely delivery of data to Frontier AI Labs.
- Worked as QA Automation Engineer to maintain data quality.

C&E

Lead Engineer

Sylhet, Bangladesh

June 2025 — September 2025

- Led the development of a Laboratory Information System (LIS) and integrated it for advanced diagnostic labs.
- Scaled LIS systems to run thousands of tests per day in an automated environment.

Amicsoft

Junior Full Stack Engineer

Dhaka, Bangladesh

Jun 2023 — Dec 2023

- Contributed to client projects using React, Spring Boot, and Flutter; implemented integration tests.
- Worked as a Test Automation Engineer.
- Took technical interviews for hiring new developers.

C&E

Intern

Sylhet, Bangladesh

Jan 2021 — Mar 2021

- Built management software modules with .NET.
- Contributed to the development of a Hospital Management System.

PROJECTS

CO-LAB

Developer

Dhaka, Bangladesh

2024

- Web app to showcase user projects.
- Stack: React, JavaScript, FastAPI, Python.

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| DormBuddy <i>Developer</i> | Dhaka, Bangladesh 2023 |
| <ul style="list-style-type: none"> • Listing/searching for dormitories/hostels. • Stack: React, Spring Boot, PostgreSQL, Firebase. | |
| CSEDU Portal <i>Android Developer</i> | Dhaka, Bangladesh 2022 |
| <ul style="list-style-type: none"> • Android app for the CSE Dept of Dhaka University: profile management, resources/class schedules. • Stack: Flutter, Firebase, Dart. | |

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| ProjectZ <i>Developer</i> | Dhaka, Bangladesh 2020 |
| <ul style="list-style-type: none"> • Arcade-style collection of several classic retro games. • Stack: C/C++, SDL. | |

PUBLICATIONS

- Ullah, R.; **Chowdhury, I. S.**; Razzaque, M. A.; Roy, P.; Hassan, M. M. (2025). *Federated Deep Reinforcement Learning for Optimal Resource Allocation in Vehicular Edge Computing*. Presented at the *Computing Conference 2025 (CompCom 2025)*, London, UK; subsequently published as a chapter in *Springer Lecture Notes in Networks and Systems (LNNS)*. [Springer Link](#)

AWARDS

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| Dhaka University Dean's Award 2023 Outstanding academic performance in the undergraduate program | Dhaka, Bangladesh 2023 |
| ICPC Dhaka Regional Placements 16th (2020), 20th (2021), 55th (2024) | Dhaka, Bangladesh 2020-2024 |
| General Scholarship from the board of Higher Secondary Education Exemplary performance in the Higher Secondary Board Exam. | Dhaka, Bangladesh 2019 |
| Bangladesh Mathematics Olympiad (Divisional Round) Champion(2018), 2nd Runner Up(2017) | Sylhet, Bangladesh 2018-2017 |
| Bangladesh Physics Olympiad (National Round) 19th(2019), 21nd(2017) | Dhaka, Bangladesh 2017-2018 |

SKILLS

- **Programming Languages:** C/C++, Java, Python, JavaScript, Dart, ARM Assembly, SQL
- **Frameworks/Libraries:** React, Flutter, Spring Boot, PyTorch, flwr
- **Databases:** PostgreSQL, MySQL, Firebase, Oracle
- **Testing:** Flutter Integration Test, Pytest
- **Embedded:** ARM Cortex M4, Laboratory Analyzers
- **Interests:** Problem Solving & Algorithms, Software development, AI/ML Research, LLMs, Reinforcement Learning, Edge Computing, Computer Networks

REFERENCES

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| Dr. Md. Abdur Razzaque, SMIEEE Professor & Chairman, Department of Computer Science and Engineering, University of Dhaka, Dhaka 1000, Bangladesh E-mail: razzaque@du.ac.bd Scholar Profiles: Faculty Profile — Google Scholar |
| Dr. Mohammad Reza Selim Professor, Department of Computer Science & Engineering, Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh E-mail: selim@sust.edu Scholar Profiles: Faculty Profile — Google Scholar |