

Sejuti Sharmin Siddiqui

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Github: [sejutiii](#) | LinkedIn: [Sejuti Sharmin Siddiqui](#) | [Portfolio](#)

EDUCATION

University of Dhaka - Institute of Information Technology

Bachelor of Science in **Software Engineering**

GPA: 3.99/ 4.00 (till date)

Expected Date of Graduation: Oct 2026

RESEARCH INTERESTS

Human-AI Interaction, Human-Computer Interaction, Software Engineering

PUBLICATIONS

J. Kim, J. Dragovic, A. Botta, T. M. R. Islam, A. Mohamad, K. Sharaf, **S. S. Siddiqui**, D. Joshi, H. Anand, N. Saryyeva, S. Chapagain, S. Nasir, D. Marinov, and B. A. Stoica. The Discreet Charm of the Bugeoisie: A First Look at Bug Reports Created by Researchers. In Proceedings of the ACM International Symposium on Software Testing and Analysis (ISSTA), Oakland, CA, October 2026. To appear.

RESEARCH EXPERIENCE

DSSE Lab, IIT, University of Dhaka | Undergraduate Researcher

March 2026– Present

- Working under Dr. Kazi Muheymin-Us-Sakib to build a tool that maintains human-in-the-loop persistent architectural knowledge in AI-assisted development by detecting violations in AI-generated code and recording design decisions as a searchable, context-aware knowledge base.

UIUC+ Summer Research Internship Program | Undergraduate Researcher

May 2025 – July 2026

- Worked with Professor Darko Marinov from the University of Illinois Urbana-Champaign to build a benchmark dataset of bug reports opened by the authors of the ISSTA 2025 conference. Our work has been accepted in ISSTA 2026.

IIT HCI Community | Research Associate

September 2024 – April 2025

- Analyzed research papers for literature review on the prevalence of edtech platforms in the global south. Conducted Focus Group Discussions (FGD) with developers and users of edtech platforms, transcribed and analyzed the transcriptions of the FGDs.

PROFESSIONAL EXPERIENCE

Samsung R&D Institute Bangladesh | AI Intern

October 2025 – April 2026

- Developed, trained, and optimized in-house models for biomedical AI research at Samsung Medison. Got hands-on experience working with real-time models that yield both high accuracy and high FPS, crucial for sensitive tasks like medical diagnosis.

ACHIEVEMENTS AND AWARDS

2026 Problem Setter, Bangladesh Artificial Intelligence Olympiad

2026 Finalist, The Infinity AI BuildFest by Cloudcamp Bangladesh

2025 Finalist, International Blockchain Olympiad Bangladesh

2025 Selected for the Final Phase of UIUC+ Research Program (Final 15 out of 1300+ applicants)

DEVELOPMENT SKILL SET

Programming Languages:

Python, C++, Java, SQL, PHP, Javascript

Web Technologies:

HTML, CSS, React, Node.js, FastAPI, Tailwind CSS

AI Libraries and Frameworks:

Pandas, Numpy, Scikit-learn, PyTorch, Lightning AI, OpenCV

Development Tools:

Git, Github, Linux, Postman, Docker, MySQL, PostgreSQL, MongoDB

PROJECTS

 Gomoku AI | Python

2025

Built a 10x10 Gomoku game with PvP and Player vs. AI modes using minimax with alpha-beta pruning and a Pygame interface.

 ASTRA | React, FastAPI

2024

Developed a TTS document reader web app with OCR text extraction and Gemini API for summarization & keyword extraction features.

 DataSift | C, C++

2023

Implemented core ML algorithms (linear/polynomial/logistic regression, Naive Bayes, KNN, and K-means) from scratch without libraries.

ORGANIZATIONS

IIT Software Engineers' Community | President

June 2026 – Present

IIT Girls' Community | Executive Member

November 2024 – Present

BNMPC Debating Club | General Member

2019 – 2021