

# Kazi Farhana Faruque

UNDERGRADUATE SOFTWARE ENGINEERING STUDENT



+8801642000953



bssel506@iit.du.ac.bd



<https://github.com/Farhana-Faruque>



<https://www.linkedin.com/in/kazi-farhana-faruque/>

## Projects

### **MotionMatrix** | React, PostgreSQL, FastAPI | <https://github.com/Farhana-Faruque/MotionMatrix>

Developing a hand detection system web Application for garment factories so that floor manager can measure work productivity, efficiency and generate reports.

### **DesktopApp** | Java, JavaFX | <https://github.com/Farhana-Faruque/DesktopApp>

Developed a desktop App for supershop management which allows managing products, orders, view stock, and handle customer data applying design patterns such as Memento, Singleton, Observer, Command, Bridge, and Strategy.

### **Small Web Projects** | HTML, CSS, JavaScript | <https://github.com/Farhana-Faruque/Small-Web-projects>

built some web projects such as Number Guessing Game, Rock-Paper-Scissor, Temperature Conversion Program and so on.

### **Small Language Model** | Pytorch, Jupyter NoteBook | <https://github.com/Farhana-Faruque/Small-Language-Model>

Buit a compact, efficient Transformer-based model for creative text generation, trained on TinyStories.

### **Image Compression Tool** | C | <https://github.com/Farhana-Faruque/SPL-1>

Built a compression tool that compresses PGM, BMP images for lossless compression and JPEG images for lossy compression.

## Technical Skills

- **Languages:** Java, Python, C++, C
- **Web Development:** HTML, CSS, JavaScript
- **Framework:** ReactJS, Tailwind CSS
- **Database:** Oracle, MySQL, PostgreSQL
- **Tools:** Git, GitHub, VS Code, IntelliJ IDEA, Canva

## Education

### **Bachelor of Science in Software Engineering**

Institute of Information Technology – University of Dhaka (2023-Present)

**CGPA:** 3.21(till 3<sup>rd</sup> semester)

### **Higher Secondary Certificate**

Dhaka City College (2022)

**GPA:** 5.00

### **Secondary School Certificate**

Bottomley Home Girls' High School (2020)

**GPA:** 5.00

## Work Experience

### **Content Executive** | Noor Physics Academy

September 2023 – May 2024.

Worked in the Physics Department at an ed-tech company under the supervision of team lead

## Participation and Achievements

- **3<sup>rd</sup> position**, IIT Girls Programming Contest organised by IITGC (IIT Girls Community)
- **2<sup>nd</sup> position**, Oil Painting arranged by CAA (Creative Art Academy)
- Anchoring & Volunteer at Cefalo presents ITVerse 2023
- Participated in 8<sup>th</sup> Bangladesh Women's Mathematics Olympiad 2024
- Participated in 1st S.N.Bose National Science Festival 2025 (Poster Presentation)
- Joined the workshop on Building a Small Language Model from Scratch (BARTA LAB)

## References

### **Professor Dr B M Mainul Hossain**

Director & Professor, IIT

University of Dhaka

Email: mainul@iit.du.ac.bd

Phone: +88019-11489984

### **Professor Dr Muhammad Shoyaib**

Professor, IIT

University of Dhaka

Phone: +88019-38406101