Kazi Farhana Faruque

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Technical Skills

- **Languages**   : C, C++, Java, Python
- **Web Development**   : HTML, CSS, JavaScript
- **Framework**   : ReactJS, Tailwind CSS
- **Database**   : Oracle, MySQL, PostgreSQL
- **Tools**   : Git, Github, VS Code, Canva, Kaggle, Google Colab

Projects

MotionMatrix | React, PostgreSQL, FastAPI | https://github.com/Farhana-Faruque/MotionMatrix

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

DesktopApp | Java, JavaFX | https://github.com/Farhana-Faruque/DesktopApp

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

Small Web Porjects | HTML , CSS, JavaScript | https://github.com/Farhana-Faruque/Small-Web-projects

Built some web projects such as Number Guessing Game, Rock-Paper-Scissors, 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.

Education

Bachelor of Science in Software Engineering
Institute of Information Technology
University of Dhaka (2023-Present)

Expected Graduation: Sep 2027
CGPA: 3.21(upto 3rd 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

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

References

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