FABIHA AFROSE REDITA

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SKILLS

- Programming Language: C++ (Advance), Python (Advance)
- Database Management System: MySQL
- Problem Solving: Around 3+ years of experience of problem solving in C++, solved 300+ problems all together
- Tools and others: Visual Studio, Google Colab, Jupyter Notebook, OpenGL, git and github
- Mathematical Proficiency: Linear Algebra, Statistics, Probability

PROJECTS

Leukemia Classification:

- Classifying blood smear images into five leukemia subtypes with 91% accuracy.
- Designed and implemented a deep learning pipeline using different image processing methods with transfer learning (EfficientNetB7)
- **Technology: Python, TensorFlow, Scikit-learn, OpenCV, NumPy, Streamlit, Google Colab, Matplotlib**

Black-Jack Advance:

- **Level 1:** Built with pygame, it features AI opponents, scoring mechanics, and game state management.
- **Level 2:** Created using tkinter, it includes level progression, image-based cards, and a status bar, with seamless transitions between the two game modes.
- **Technology: Python, Pygame, Tkinter, PIL (Pillow), Fuzzy Logic (fl module), OS module**

BookWorm:

- A book-sharing social media platform
- A newsfeed for book reviews, uploading any photos of book, giving reviews, chatbot, sending book requests to the other users
- **Frontend: CSS, HTML, JavaScript   Database Management System: MySQL   Backend: PHP**

A Super-shop:

- A graphical view of two storied super-shop
- **Technology/Language: C++, OpenGL, GLFW, GLAD, Visual Studio**

WORK EXPERIENCE:

Spectrum Software & Consulting Ltd
Software Engineer - Intern

- Developing a new DSL (Domain Specific Language) for generating business flow chart from scratch
- ANTLR (for lexer and parser generation in JAVA), creating AST (JAVA), Using Tree data structure (JAVA) for parent-child relationship to inherit the properties (color, size, position)
- Concept: Object Oriented programming, Data Structure and Algorithm, Compiler Design

ONLINE JUDGE ID

- Codeforces handle: Solved 210+ problems on Codeforces, attempted 247 problems, Max Rating – 1361
- Leetcode handle: Fabiha Afrose

EDUCATION

Khulna University of Engineering & Technology (KUET)

2019 – 2024
Bachelor in Computer Science and Engineering

ACHIEVEMENTS

Dean's Award (KUET)

2019 – 2020
Attaining CGPA-3.75 or above on 2019-2020 session