FABIHA AFROSE REDITA

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SKILLS

- Programming Language: Java (Advance), C++ (Advance),
- Database Systems: MySQL
- Problem Solving: Around 3+ years of experience of problem solving in C++
- Tools: Visual Studio, Google Colab, Jupyter Notebook
- Others: OpenGL, Latex, git, bash

PROJECTS

Find The Weather:
- A simple weather forecasting app
- **Frontend: Flutter**   **Backend: Open Weather API**

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

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, Matplotlib, Streamlit, Google Colab**

WORK EXPERIENCE:

Spectrum Software & Consulting Ltd
Trainee Software Engineer
- Developed a new DSL (Domain Specific Language) for generating business flow chart from scratch
- Developed a custom visitor class with ANTLR to traverse a parse tree and transform it into an ASTNode object containing essential details.
- Converted the ASTNode into a JSON file, which was then used to generate an SVG for visualization.
- Designed a node relationship system with a linked list, planning future improvements with selfId and parentId for handling sibling relationships.
- ANTLR (for lexer and parser generation in JAVA), Java (creating AST, Linked List)
- Tech Stack: JAVA
- Concept: Compiler Design, Object Oriented Programming, Data Structure

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