

Md Nafis Faiyaz

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EXPERIENCE

Therap (BD) Ltd.

Software Engineer

June 2023 – Present

Dhaka, Bangladesh

- Developed features and system functionalities for 3 different modules to enhance functionality based on user requirements using Java Spring MVC, Hibernate ORM and JSP Engine.
- Implemented topological sort and Dijkstra's algorithm on graphs that were previously handled naively, resulting in more than 10x improvement in speed and bugfree code.
- Identified, troubleshoot and resolved over 100 bugs in the software to ensure a smooth user experience.
- Participated in 10+ design reviews, providing critical feedback in the selection of the most suitable technologies for 2 major projects.
- Conducted regular reviews and provided constructive feedback on code written by colleagues, ensuring adherence to best practices (e.g., style guides, version control, accuracy, testability, and efficiency).
- Provided mentorship to junior developers as a part of team requirement contributing to a collaborative environment.

Battery Low Interactive Ltd.

Intern Software Engineer

August 2021 – October 2021

Dhaka, Bangladesh

- Optimized database queries and storage solutions, leading to a 20% improvement in application response times.
- Implemented automated deployment pipelines using Docker and Kubernetes, reducing deployment time by 50%.

SKILLS

Courses

OOP, DSA, OS, TCP/IP, RDBMS

Languages

C, C++, Python, Java, PL/SQL, JavaScript, Dart

Libraries & Frameworks

Pytorch, Numpy, Pandas, Gradle, Hibernate, FXML, Spring MVC, JavaFX, Flutter

Technical Skills

Git, Linux, \LaTeX

PROJECTS

MathBot

Python, Pytorch, Transformers

Developed a math word problem solver using multi headed transformers that takes a math problem statement in natural language and generates an equation to solve the problem.

Handwritten Digit Classifier

C++

Implemented a 2-layer neural network model for handwritten digit recognition. The model takes matrix-like input representing the digit and predicts the corresponding digit (0-9).

Sudoku

Java, FXML

Developed a single player game using Java FXML where the player needs to fill a grid, such that every 3x3 box, every row and every column contains a permutation of numbers from 1 to 9.

ACHIEVEMENTS

- 8th among 168 teams, ICPC Dhaka Regional 2022
- 11th among 117 teams, BUET Inter University Programming Contest 2022
- 21st among 165 teams, ICPC Dhaka Regional 2021
- 27th among 120 teams, SUST Inter University Programming Contest 2023
- Expert (Max Rating 1778) in Codeforces
- 5 Star (Max Rating 2044) in Codechef
- First Runners Up, Bangladesh Mathematical Olympiad, National Round, 2016
- Second Runners Up, Bangladesh Mathematical Olympiad, National Round, 2014
- 12th, Bangladesh Physics Olympiad, National Round, 2014
- 6th, Bangladesh Physics Olympiad, National Round, 2013

RESEARCH

Syed Rifat Raiyan, **Md Nafis Faiyaz**, Shah Md. Jawad Kabir, Mohsinul Kabir, Hasan Mahmud, and Md Kamrul Hasan. 2023.

Math Word Problem Solving by Generating Linguistic Variants of Problem Statements. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 4: Student Research Workshop)*, pages 362–378, Toronto, Canada. Association for Computational Linguistics.

EDUCATION

Islamic University of Technology (IUT)

Bachelor of Science in Computer Science & Engineering; **CGPA - 3.64/4.00**

January 2019 – May 2023

Gazipur, Bangladesh