

RIFAT AREFIN

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github.com/RifatArefin32 [My Porfolio](#)



CAREER OBJECTIVE

Backend-focused Software Engineer with experience in designing and developing scalable, reliable, and maintainable software systems using modern engineering practices. Passionate about building secure and high-performance backend solutions while exploring the intersection of Artificial Intelligence, Machine Learning, and Cybersecurity. Aspiring to contribute to impactful research and engineering solutions that address emerging challenges in intelligent and secure computing.

PROFESSIONAL EXPERIENCES

Software Engineer

Fiftytwo Digital Ltd.

March 2025 – Present

Dhaka, Bangladesh

- Contributed to the development of VIKING POS as a member of the POS Product Team of Fiftytwo A/S, Denmark
- Developed core functionality and business logic for numerous features using C++
- Developed device driver code to enable efficient communication between the software and various hardware systems
- Identified, debugged, and resolved software issues to improve product stability and reliability
- Skills:** C++, Python, Bash, Linux, Multi-threading system, Docker, Hardware-Software Integration, Test Driven Development

Software Engineer I

Brain Station 23 PLC.

March 2024 – March 2025

Dhaka, Bangladesh

- Contributed in TEQ, a multi-company vehicle management platform, for managing buses in Norway. Responsible for both frontend and backend development. Python (Django), Vue.js, MongoDB and PostgreSQL are used in this project
- Contributed to the backend of Pyramid, an online job posting and assessment platform. PHP, Laravel, Moodle, MySQL and Docker etc. are used
- Developed asset management system for Brain Station 23 PLC using PHP, Laravel, and MySQL
- Developed and maintained e-commerce and portfolio websites using WordPress
- Developed various custom Moodle plugins to meet specific client requirements on different LMS projects
- Skills:** Python, Django, PHP, Laravel, WordPress, Moodle, Docker, MySQL, PostgreSQL, MongoDB

EDUCATION

Bachelor of Science in Computer Science

Khulna University of Engineering & Technology

CGPA – 3.81/ 4.00

2019 – 2024

Higher Secondary School Certificate

Notre Dame College, Dhaka

GPA – 5.00/ 5.00

2016 – 2018

RESEARCH AND PUBLICATIONS

An Analysis on Structural MRI Images for Better Alzheimer Disease Detection using Deep Neural Networks | Deep learning, CNN, Python, Tensorflow, OpenCV | [Link](#)

January, 2024

The objective of the research work is to classify different stages of Alzheimer's Disease from structural MRI using a CNN-based model. This research work has been presented at the International Conference on Computing Advancements (ICCA), 2024. This study enhances Alzheimer's disease classification by applying pre-processing techniques to structural MRI images and using pre-trained models like VGG16, ResNet50, and MobileNet. Using the OASIS dataset, MobileNet achieved the best results, showing that pre-processing significantly boosts classification performance.

MAJOR PROJECTS

motoXchange | *PHP, HTML, CSS, JavaScript, MySQL* | [Project Link](#) **January, 2025**

A web platform where people can buy, sell and exchange their used cars. It is developed using HTML, CSS, JavaScript and PHP without using any framework.

Service-Now | *Flutter, Dart, Google Map API* | [Project Link](#) **September, 2022**

This is a dynamic service application. In this project, there are several providers who provide services in response to service call from customers. The location of service seeker and the provider

Mahjong Tiles | *Python, Tkinter* | [Project Link](#) **June, 2023**

This is a game project developed in python. This is a two players game project. User can play with computer as well. Computer moves are determined by minimax algorithm and alpha-beta pruning.

Buffalo Burger | *Java, JavaFx, MySQL* | [Project Link](#) **June, 2021**

A desktop application using JavaFx which is basically a cloud restaurant management system that has customer interface and admin control as well.

3D food court design | *C, OpenGL 3.3* | [Project Link](#) **November, 2023**

Computer Graphics project in OpenGL that incorporates the basic theories of Computer Graphics. This project reflects a 3D design idea of a food court that comprises different shops selling varieties of foods and open space for customers to sit down and enjoy their times.

Online Car Showroom Database Management System | *SQL, PLSQL* | [Project Link](#) **July, 2022**

A database management project that includes almost all necessary queries to maintain a Car Showroom.

TECHNICAL SKILLS

- **Programming Languages:** C ++, Python, PHP, JavaScript, HTML, CSS
- **Backend & Web Development:** Django, Django REST Framework, Laravel, WordPress
- **Databases & Data:** MySQL, PostgreSQL, MongoDB, SQLite
- **AI-Assisted & Agentic Development:** AI Coding Agents e.g. Codex, MCP, AI-assisted Code Generation, Code Review & Refactoring
- **Others:** Docker, Git, GitHub, Linux

PROBLEM SOLVING ACHIEVEMENTS

Solved 1200+ programming problems and participated onsite and online programming contests.

- **Codeforces:** [3_aRrIeFfAiTn_2](#), **Max Rating 1370**, Solved 800+ problems
- **AtCoder:** [RifatArefin32](#), Solved 200+ problems.
- **LeetCode:** [RifatArefin32](#), Solved 150+ problems.
- **LightOJ:** [rifat_arefin32](#), Solved 50+ problems.

ACHIEVEMENTS

- **DEAN's Awards, Faculty of EEE**, Session 2019-20, 2020-21 and 2021-22
- **KUET Technical Scholarships**, Session 2019-20, 2020-21 and 2021-22
- **Best Team from 2k18 Batch, position-11**, Intra KUET Programming Contest 2022
- **Board Scholarships**, Dhaka Education Board

EXTRA CURRICULAR ACTIVITIES

- **Workshop Manager**, Hardware Acceleration Club of KUET (HACK)
- **Joint Secretary**, Bit2Byte (Research & Development Club of KUET)
- **Senior Mentor (Boys)**, Special Group Interested in Programming Contest (SGIPC)

REFERENCES

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