



Naheed Rayhan

Full Stack Software Engineer
4th Year CSE student
Dhaka, Bangladesh

+880 1313697666

naheed27ray@gmail.com

GitHub

LinkedIn

EDUCATION

- Jagannath University (8th Semester)** CGPA: 3.46
Bachelor of Science in Computer Science & Engineering 2019-2024
- National Ideal College** GPA: 5.00
Higher Secondary School Certificate (Board of Intermediate and Secondary Education, Dhaka) 2018
- Aftab Uddin High School** GPA: 5.00
Secondary School Certificate (Board of Intermediate and Secondary Education, Dhaka) 2016

CERTIFICATIONS

- IBM DevOps and Software Engineering Professional Certificate** April. 2024 - *ongoing
Professional Certification for DevOps Coursera

EXPERIENCE

- CPSD Technologies Ltd.** Oct. 2023 - Jan. 2024
Backend Engineer Trainee Dhanmondi, Dhaka
 - Learn about CI/CD, GIT, GitHub, GitHub Actions
 - Learn about Django, Code Quality Checking and work with Digital Ocean, Linux, Docker, Docker Hub.

PERSONAL PROJECTS

- Golang + Pocketbase** 2024
REST API using GOLANG and MUX and POCKETBASE
 - Tools & technology used: Golang, MUX, Pocketbase
 - This is a GO API template with MUX where the backend database is POCKETBASE. This is a proof of concept for a monolithic app. The pocketbase is suitable for handling 10,000 concurrent users.
 - See Code
- Personal Assistant** 2024
LLM powered AI chat bot in Telegram
 - Tools & technology used: GeminiPro LLM, Python, Webhooks, NLP
 - Personal Assistant powered by LLM to execute task such as ,Control IOT Devices, Surf the Web, General Conversation, Gathering News, etc through Telegram.
 - See Video
- Online Code Compiler** 2022
Part of CSEL-3206: Software Engineering Lab
 - Tools & technology used: ReactJS, NodeJS, JavaScript, Python, Docker, Docker-compose, Redis, Rabbitmq, jQuery, MySQL, CI/CD.
 - An Online Code Compiler and API to execute scripts in a Sandbox Environment. This online IDE can run C, C++, Java, Python, Dart and JS code online.
 - See Video
- RSA Encryption based Chat App** 2023
Part of CSEP-3209 & CSEL-4110: Application Design and Development (Project) & Cryptography and Information Security Lab
 - Tools & technology used: Flutter, Dart, Firebase
 - A Flutter project to create a group-based chat app with end-to-end encryption with RSA Encryption.
 - Private key can be revoked from the device, keeping chats unreadable if compromised, and preventing unauthorized access from external or database sources.
 - See Video

RESEARCH

- **LLM Enhancer: Merged Approach using Vector Embedding for Reducing Large Language Model Hallucinations with External Knowledge.**

2023-*

The thesis explores the effectiveness of large language models (LLMs) such as GPT-3.5 Turbo and Mistral 7B, both offline and enhanced with additional tools, in answering questions from two datasets: WikiQA (2015) and a custom dataset (2023-24). The primary aim is to compare the performance of these models using different approaches, including a novel method termed LLM-ENHANCER, which integrates vector embeddings and multiple online sources for more accurate responses.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, C# , Dart.

Developer Tools: VS Code, Visual Studio, Git, Github Actions, Nano, Vim, Andriod Studio, Docker, Docker-compose etc

Frameworks: Express js, React js, Android SDK, Flutter, Streamlit, Django, Flask etc.

Devops: Docker , Docker-compose , CI/CD

Cloud/Databases: MySQL, MongoDB, Firebase ,Microsoft Azure, Digital Ocean,

Areas of Interest: Programming, Startup Business, Art, Football, Gaming

ONLINE JUDGE ACITVTITIES

Codeforces solved 800+ problems.

LeetCode participated in contest and solved various categories of problems.

POSITIONS OF RESPONSIBILITY

- **Founding Executive Committee Member**, CSE JnU Robotics Club, JnU
- **Covid Campus Vaccination Campaign Coordinator**, JnU

2022

2021

ACHIEVEMENTS

- **CSE Day Festival 2024** Intra University Poster Presentation *Champion*
- **CSE Day Festival 2024** Intra University Project Showcasing *Ranked 5th*
- **SUST SWE Technovent Hackathon 2023** Garage Chai *Ranked 11th*
- **CSE Day Festival 2023** Intra University Project Showcasing (Garage Chai) *1st Runner-Up*
- **CSE Day Festival 2023** Intra University Project Showcasing (Online Code Compiler) *2nd Runner-Up*
- **Nectar Robotic Olympiad 2023** Line Following Robot Segment *Ranked 9th*
- **Nectar Robotic Olympiad 2022** Line Following Robot Segment *Ranked 15th*
- **AUST ICPC 2022** Programming contest *Ranked 45th*