Naheed Rayhan

Full Stack Software Engineer

Dhaka

Bangladesh

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EDUCATION

• **Jagannath University**	*CGPA: 3.49*
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, CI/CD . Github Actions.
* 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 Acitvities

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 *2022*

* **Covid Campus Vaccination Champaign Coordinator,** JnU *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*