

Md Mehedi Hasan Raj

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EDUCATION

University of Essex

Essex, UK

Masters of Science in Data Science, Grade: 1st class (Distinction), 81% marks

Jan. 2022 – Feb. 2023

North South University

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering, Grade: 1st class, 89% marks

Jan. 2016 – Dec. 2020

PROJECTS

Subway Management System. | Full Stack, Django, REST API, Python

[Git Link](#)

- Developed a restaurant management software using **Django**, featuring user **authentication** and a **REST API**.
- Enabled customers to **browse the menu** and **place orders**, while administrators could manage food items and user accounts.
- Implemented a secure user **authentication system** to **control access**.
- Provided administrators with a comprehensive set of tools **CRUD** operations for food management, including **adding, updating, and deleting** menu items.
- Created an **intuitive menu display** for customers to view food items, descriptions, prices, and ordering.
- Utilized Django's ORM for seamless interaction with the database. Conducted rigorous testing, including **unit and integration testing**, to ensure software reliability

Hotel Rating System. | Backend, Microservice, Spring boot, REST API, Java

[Git Link](#)

- Developed a **microservices** architecture comprising User Service, Rating Service, and Hotel Service using **Spring boot** and **Spring framework**
- Integrated **MySQL, Postgres, and MongoDB databases** into each **microservice**, ensuring efficient data storage and retrieval
- **Communication between microservices** to enable seamless data flow, with User Service fetching user ratings and Hotel Service providing detailed information based on ratings.
- Implemented a dynamic rating system by utilizing external **APIs** in the Rating Service, allowing users to rate hotels.
- Collaborated with the development team to ensure project functionality, employing Spring Boot's features for efficient handling of **RESTful APIs** and microservices communication.

Bangla Plagiarism Checker | Python, PyQt5, BeautifulSoup, BFS Algorithm, GUI

[Git Link](#)

- Developed a Bangla language plagiarism detection system using Python, incorporating **web crawling** to compare text with online sources.
- Utilized sets and data structures and **BFS algorithm** to efficiently store and compare unique words and phrases, enhancing detection accuracy and speed.
- Employed web scraping libraries like **BeautifulSoup** to gather Bangla web pages.
- Implemented **string matching algorithms** and cosine similarity to measure similarity.
- Presented results with matched sections and similarity scores for user-friendly analysis.

AWARDS AND ACHIEVEMENT

- Achieved **9th** place in NSU intra-programing contest 2019
- Joined **ACM-ICPC** 2019, 2020 and solved 2, and 3 problems respectively
- Published an **International Journal paper** in the [Vietnam Journal of Computer Science](#).

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL (Postgres), JavaScript, Typescript, HTML/CSS, R

Frameworks: Django, RESTful API, React, Bootstrap,

Developer Tools: Git, Github, Docker, AWS, CI/CD VS Code, Visual Studio, PyCharm,

Libraries: Pandas, NumPy, Matplotlib, Sk-learn, Tensorflow