



Nafisa Hossain Nujat

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ABOUT ME

Motivated Computer Science graduate and software developer, proficient in programming, databases, analytics, with a commitment to becoming a skilled professional. Eager to contribute adaptability and emerging expertise to dynamic projects in the field.

WORK EXPERIENCE

12/2023 – CURRENT Oulu, Finland

FULLSTACK DEVELOPER DIFFO SOLUTIONS OY

- Develop and maintain RESTful APIs to facilitate communication between the frontend and backend systems
- Implement and optimize databases to store and retrieve data efficiently
- Develop microservices and integrate the application with external systems, or other third-party API services
- Address and fix bugs, as well as contribute to ongoing maintenance and support of the application
- Collaborate with other team members, such as developers, to ensure a high-quality product
- Participate in creating unit tests, integration tests

EDUCATION AND TRAINING

21/08/2023 – CURRENT Tampere, Finland

MSC IN COMPUTING SCIENCES (SOFTWARE, WEB & CLOUD) Tampere University

07/01/2019 – 30/05/2023 Gazipur, Bangladesh

BSC IN COMPUTER SCIENCE AND ENGINEERING Islamic University of Technology

DIGITAL SKILLS

C++ | Java | Python | HTML | CSS | JavaScript | React | Node.js | Vue | C# | SQL | MySQL |
Firebase | Azure | Git | Scrum | Machine Learning | Artificial Intelligence | Natural Language
Processing

ADDITIONAL INFORMATION

PUBLICATIONS

"When Words Fail, Emojis Prevail": A Novel Architecture for Generating Sarcastic Sentences With Emoji Using Valence Reversal and Semantic Incongruity

– 2023

Published in the Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Student Research Workshop)

- Developed a novel multi-modular framework for sarcasm generation incorporating reversal of valence and semantic incongruity including emojis and published a sarcastic dataset of 2000 instances.
- Worked with deep learning for reversal of valence on non-sarcastic data and RoBERTa-large model fine-tuned on the Multi-Genre NLI dataset for semantic incongruity.
- Used GPT-3 to extract commonsense data and a pre-trained model fine tuned on the CLIP deep learning model by OpenAI for emoji prediction.

HONOURS AND AWARDS

2021

2nd Runner Up, Girls' Mobile Application Development Contest – BdApps

2013

District Champion, Mathematics and Computer, Creative Talent Hunt Competition – Government of Bangladesh

PROJECTS

01/08/2022 – 30/04/2023

SarcasmGenerationWithEmoji Bachelor's thesis work - multi-modular framework for sarcasm generation incorporating the reversal of valence and semantic incongruity characteristics of sarcasm including emojis. Worked with deep learning for reversal of valence on non-sarcastic data, RoBERTa-large model fine-tuned on the Multi-Genre NLI dataset for semantic incongruity, GPT-3 to extract commonsense data, pre-trained emoji prediction model fine tuned on the CLIP deep learning model by OpenAI. Includes a sarcastic dataset of 2000 instances.

Link github.com/nhnuijhat/Sarcasm-Generation-with-Emoji

01/03/2022 – 31/05/2022

GhuraGhuri Travel web and mobile application for Bangladesh incorporating Google Maps API. Web application built with React and Node, as part of Web Architecture course. Mobile application built with Flutter and Firebase for Mobile Application Development course.

Link github.com/nhnuijhat/GhuraGhuriMerged

01/11/2021 – 30/11/2021

BookNerd Ebook and Audiobook Application built with Flutter using several APIs for a training course on Flutter.

Link github.com/nhnuijhat/BookNerd

01/10/2021 – 30/11/2021

UniFo University admission web portal for Bangladeshi students built with React and MySQL database as part of Database Management course.

Link github.com/nhnuijhat/UniFO

01/05/2021 – 31/10/2021

Thrive Productivity tracking application incorporating user data to track and advise on diet, studies, fitness, mental health etc. Built for Software Development course.

Link github.com/nhnuijhat/Thrive

01/04/2020 – 30/04/2020

Note_Ally Student social media application for study materials sharing and discussion as well as job hunting built for a mobile application development contest (2nd runner up).

Link github.com/nhnuijhat/Note_Ally

01/12/2019 – 29/02/2020

OMNISHEBA Medical assistance android application built during COVID to bring together doctors and patients in Bangladesh. Built on Java with Firebase as cloud database management.

Link github.com/nhnuijhat/OMNISHEBA

01/09/2019 – 31/10/2019

Bandersnatch C++ adventure game built for academic course.

Link github.com/nhnuijhat/Bandersnatch

01/06/2019 – 30/09/2019

Customer_service_management Simple console based customer-employee management system built with C++ as part of Object Oriented Programming course.