Md. Janay Alam

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`JavaScript, Python, SQL`

Summary

Proficient in JavaScript and Python, adept in both object-oriented and functional programming. Eager to learn, collaborate, and contribute to exciting projects with like-minded individuals.

Academic Background

East West University   *Dhaka, Bangladesh*

B.Sc. in Computer Science and Engineering   *January 2019 - September 2023*

- **Major:** Intelligent Systems and Data Science
- **Capstone Project:** Doctors' Cursive Handwritten Medicine Brand Detection from Prescription Images
- **Passing Date:** 25th September 2023
- **CGPA:** 3.29 out of 4

Professional Development

B-JET   *Dhaka, Bangladesh*

Trainee, 13th Batch   *October 2023 - Ongoing*

- B-Jet offers training for IT engineers, preparing them for the Japanese IT market. Japanese language training and personal development are one of the main programs of B-Jet.
- B-Jet helped me to improve my time management, communication skills, professionalism, etc. It also introduced me to the professional working culture.
- **Skills:** Japanese Language, Git, Project Management.

Relevant Skills

Programming: **JavaScript** (React JS, Express JS, etc.), **Python** (Flask, NumPy, Pandas, Matplotlib, etc.), **Java**.

Databases: Document Database (**MongoDB**), Relational Database (**PostgreSQL**, Oracle SQL).

Language: Bengali (Native Proficiency), English (Professional Proficiency), Japanese (Basic).

Others: Problem Solving, Time Management, Team Communication, Team Leadership, Quick Learning.

Projects

Doctors' Cursive Handwritten Text Recognizer   *Dhaka, Bangladesh*

East West University   *June 2022 - July 2023*

- Using handwritten prescriptions, the developed application categorizes medication brands and recommends alternative brands for classified medicine.
- Studied related prior works and conducted surveys at a few pharmacies.
- Developed a doctor's handwritten medicine names dataset.
- Preprocessed the image dataset with image processing techniques.
- Trained a custom CNN model to categorize handwritten text images.
- **Project Link:** Github Repository
- **Stack:** React JS, Flask API, Tensorflow, NumPy, Pandas, BeautifulSoup, and MongoDB.

Clean YouTube Playlist   *Dhaka, Bangladesh*

Personal Project   *July 2023 - September 2023*

- In this application, users can watch videos (entire playlists) just like on online educational websites without any distractions by the YouTube video suggestion system.
- Fetches YouTube playlist details from YouTube Data API.
- Utilized the DRY approach and structured the code and files in an organized manner.
- **Challenge:** Implementing the recursive function for fetching playlist videos from the YouTube Data API.
- **Project Link:** GitHub Repository with Demo
- **Stack:** React JS, Easy Peasy (state management).

Cycle Rent System   *Dhaka, Bangladesh*

East West University   *June 2022 - September 2022*

- Through this web application a users can rent bicycles by scanning a QR code. This application has an in-app credit system that they can buy. This application consists of user based authorization system.
- Before the implementation phase, requirement analysis with designing UML diagrams was done.
- **Project Link:** GitHub Repository
- **Stack:** Express JS, Vue JS, MongoDB, and VueX (state management).

Achievements

2023	**Half-passer (Afternoon),** ITEE FE Exam, October 2023	*Bangladesh*
2022	**Dataset Creation,** In a span of four months, my team and I gathered around 300 doctor's handwritten prescriptions and developed a dataset for training a deep learning model.	*Bangladesh*
2019	**Runner Up,** Intra EWU CSE Department Cricket Tournament	*Bangladesh*

Training and Professional Certificates

Dec 2020	**Sprint Boot,** Java and Spring Framework for Beginners with Spring Boot. (Certificate)	*Udemy*
June 2020	**Python,** Python and Django for Beginners. (Certificate)	*Udemy*

Publications

CONFERENCE PROCEEDINGS

Blockchain in Concurrent Green IoT-based Agriculture: Discussion, Analysis, and Implementation

Md Janay Alam, Ashiquzzaman Choudhury, Kazi Sifat Al Maksud, Dr. Ahmed Wasif Reza, Mohammad Shamsul Arefin

6th International Conference on Intelligent Computing and Optimization, 2023, Hua Hin, Thailand

Other Activities

- **Competitive Programming:** Participated in ICPC Dhaka Regional Preliminary Contest 2022 and a few intra-university programming contests.

- **Problem Solving:** Solved 100+ programming problems in Leetcode, Codeforces, LightOJ, and HackerRank.

- **Blogging:** I recently started writing blogs on my HashNode profile.

- **Volunteering:** I along with my friends raised funds to aid individuals and families who were facing financial difficulties during the COVID-19 pandemic lockdown.

Professional Interests

- **Career Goal:** Continuously learning the latest and old technologies to become an enterprise-level web application developer in the software industry. I have a passion for leading and managing teams to achieve my goals and become a successful entrepreneur in the future.

- **Innovation:** To innovate something that will advance my career and help the IT industry and society.

- **Knowledge Sharing:** Passionate about mentoring newcomers and sharing my knowledge with my coworkers and friends in order to add value to my employer.

Hobbies and Personal Interests

- Playing video games

- Watching football and movies

- Traveling

- Reading comics