

## Md. Harun-Ur-Rashid

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### About Me:

A dedicated Software Engineer with 3 years of experience specializing in backend development, particularly using Django. I have a proven track record of designing robust and scalable software solutions. My expertise extends to Machine Learning, Deep Learning, and Python, complemented by a strong foundation in C++ programming and object-oriented design. I am passionate about leveraging technology to solve complex problems, ensuring optimal performance, and fostering innovation.

### Experience:

#### 1. Software Engineer, Giga Tech Limited, Dhaka, Bangladesh, 06/2021 – Present

- Designed and developed microservice based Face verification and Recognition using Flask, CNN & RESTAPI.
- Updated performance exiting eKYC's microservices (Transliteration & OCR) with Flask, RESTAPI, Django, RNN, LSTM etc.
- Worked on some documentations SRS, Testing observations, User Manual, SDD etc.
- eKYC - BRAC, MTBL, Basic Bank, IFIC Bank| Working on Transliteration, Verification and OCR core using Django.
- SaaS Service - TAP, bKash, FSIBL | Working on Transliteration, Verification and OCR core microservices using Django and Flask. | bKash birth verification service is live working.
- Changed the workflow of the customer onboarding journey which focuses on stateless National Identity Card (NID) verification using Python, Django, and Django Rest Framework.
- Switched from Single RPA to Multiple RPA using Python, Selenium to fetch data from EC Portal which makes the verification time 40% faster than the previous one. Also implemented the Round Robin Algorithm to distribute the load across all the RPAs.
- Successfully completed several API integrations with third parties such as Election Commission (EC), Core Banking System (CBS), Active Directory (AD) and Porichoy.
- APIs such as OCR, Verification, Liveliness and Face matching hosted as service to the server of our MFS clients.
- Integrated asynchronous background service on message queues with Celery and Redis which drastically improved the overall performance of all microservices.

#### 2. Trainee, Giga Tech Limited, Dhaka, Bangladesh, 08/2020 – 10/2020

- Worked on Machine Learning using Python.
- Worked on industrial customer data and Facebook's data using NLP.

#### 3. Teacher Assistant, 01/2019-12/2019

- Taught Python for AI courses.
- I am reviewing Undergrad's thesis (Machine learning and Deep Learning) with my Undergrad Supervisor.

## Technical Skills:

- Programming Languages: Python, C++, Java
- Backend Frameworks: Django, Flask, REST API
- Database Systems: PostgreSQL, MySQL, SQL
- Tools & Libraries: Scikit-learn, NumPy, Pandas, Keras, Matplotlib
- Version Control: Git
- Other Skills: Docker, Kubernetes, FASTAPI, Jenkins
- Operating Systems: Linux, Windows
- Additional Knowledge: Managed C++, Windows API, GUI frameworks (Qt, MFC), PL/SQL

## Projects:

### • Face-Based Employee Attendance System 12/2021

This project developed for office employees' automatic attendances by using deep learning model and face recognition built in python package. It's developed by python Django, Flask, RESTAPI and PostgreSQL.

## Publications:

1. MD. Kamran Hosain, Harun-Ur-Rashid, Tasnova Bintee Tahar, Mohamamd Masudur Rahman, "Genre Recognition of artworks using Convolution Neural Network", IEEE Xplore, 2020.
2. Mohon Raihan, Plabon Kumar Saha, Rajan Das Gupta, A Z M Tahmidul Kabir, Afia Anjum Tamanna, Md. Harun-Ur-Rashid, Adnan Bin Abdus Salam, Md Tanvir Anjum, A Z M Ahteshamul Kabir, "A deep learning and machine learning approach to predict neonatal death in the context of São Paulo", International Journal of Public Health Science (IJPHS), 2024

## Educational Qualifications:

- [Daffodil International University\(DIU\)](#), Bangladesh  
Bachelor of Computer Science and Engineering (B.Sc. in CSE), December 2019

## Participation and Achievements:

- NASA Space Apps Challenge – 2019 (1<sup>st</sup> Runner up)
- International Business Competition-2019, Organized by Hult Prize on Campus Round of Daffodil International University (1<sup>st</sup> Runner up)
- Participated in BRACathon 3.0 and selected Top-3 for specific social problem category.
- [Participated in Robi Datathon 3.0 \(Top-20\)](#).

## Professional Training and Certifications:

- FTFL – Artificial Intelligent and Machine Learning Modality, Joint training by LICT, Dhaka University and Giga Tech Limited.

## Extra-Curriculum Activates:

- Community Mentor, Bangladesh Twitter Developer Community.
- Kaggle Notebook Master, Kaggle.