

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, Mohamamid 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 (1st Runner up)
- International Business Competition-2019, Organized by Hult Prize on Campus Round of Daffodil International University (1st 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 Activites:

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