



MD ASHRAFUL HOSSAIN ALIF

CAREER OBJECTIVE

AI Developer with a deep specialization in data-centric AI and database architecture. Focused on curating high-quality training datasets, implementing efficient data validation pipelines and leveraging SQL/NoSQL systems to improve model accuracy and reliability. Seeking to build data-first AI solutions that are both powerful and trustworthy for **Mir Group**.

CONTACTS

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SKILLS

Programming Languages :

Python, C++, JavaScript

AI / ML:

TensorFlow, PyTorch, Scikit-learn, NLP,
Computer Vision, Large Language Models
(LLMs)

Frameworks & Libraries :

Pandas, NumPy, SciPy, FastAPI, PyQt,
Django, Flask, Kivy, Matplotlib, ASP .NET

Databases :

MySQL, PostgreSQL, SQL, NoSQL
(MongoDB), Big Data (Snowflake), Vector
Databases (Milvus)

Cloud & DevOps Tools :

Docker, Kubernetes, Git, Wireshark, AWS,
GCP, Azure

Web Development :

HTML5, CSS3, Bootstrap, Ajax, React, React
Native

Operating Systems: Linux (Ubuntu, CentOS)

EDUCATION

AMERICAN INTERNATIONAL
UNIVERSITY BANGLADESH

B.Sc. in Computer Science and Engineering
CGPA: 3.84 Out of 4.00 (June, 2023)

WORK EXPERIENCE

Mir Telecom Limited

August 06 , 2023 - (Present)
Dhaka

System Engineer

- Automatic Email System (MirCloud): Developed an automated emailer that notifies clients about service expiry and provides the tech team with service usage statistics.
- Performance Monitoring System (Bangla Telecom – ICX): Designed and implemented a system to process raw CDR files from Dialogic switches. Stored and analyzed call records in the database to generate national and international call statistics.
- Zan Footwear: Built an e-commerce website currently in progress.
- Fitness Tracker (Mobile App): Developed a prototype mobile app to track fitness metrics.
- Notification Alert System (Desktop App): Built a desktop application to generate real-time system notifications.
- Cloud File Manager: Contributing to the development of a file management platform.
- Worked with large datasets for performance insights, executed raw SQL queries for analytics, and used Wireshark for SMS tracing.
- Tested and automated database replication, HAProxy, clustering, and load balancing services to ensure high availability and scalability for cloud services.

PERSONAL SUMMARY

- Software & System Developer with 2+ years of professional experience in building scalable applications, automation systems and full-stack solutions using Python, Django, React and modern cloud technologies.
- Strong expertise in backend development (Python, Django, FastAPI) and frontend technologies (React, HTML, CSS, JavaScript, Bootstrap, Ajax) with proven ability to deliver production-ready applications.
- Skilled in designing and developing automation systems such as email notification systems, performance monitoring platforms and cloud service tools to optimize efficiency and reduce manual effort.
- Experienced in working with large datasets, writing optimized SQL queries and managing databases (MySQL, PostgreSQL, NoSQL).
- Hands-on exposure to cloud and DevOps technologies including Docker, Kubernetes, HAProxy, replication, clustering and load balancing.

PROJECT ACCOMPLISHED

- Project Name:** BTL Performance System
- Project description:** Process raw CDR file which is generated from switch then monitor call performance in ICX layer.
- Link :** [BTL Performance System](#)

DHAKA RESIDENTIAL MODEL
COLLEGE
Higher Secondary School Certificate (HSC)
GPA: 4.83 Out of 5.00 (2019)

JUGNIDAH HAZI MAHTAB ALI HIGH
SCHOOL
Secondary School Certificate (SSC)
GPA: 5.00 Out of 5.00 (2017)

CERTIFICATION

- IT Essential & CyberOps
- IBM DevOPS, Cloud and Agile Foundations
- IBM Docker for Beginners

- **Project Name: Zan Footwear Ltd**
- **Project description:** This site is developing for totally export based new footwear industries of Mir Group.
- **Link :** [Zan Footwear](#)

- **Project Name: Mir Cloud Ltd**
- **Project description:** Provide portal & cloud services for different types of users (Admin, Client) for Mir cloud and Coloasia (Data Center) .
- **Link :** [Mir Cloud](#)

- **Project Name: Zan Communication Ltd**
- **Project description:** National and International commercial SMS selling platform for customers with different types of industrial SMS services.
- **Link :** [Zan Communications](#)

EXTRA CURRICULAR ACTIVITIES

AIUB Computer Club (2020 – 2024)

Key responsibilities:

- Organize National Event CS fest, Cyber Gaming fest, Jarvis.
- Editor in different events from ECPP

Co -Convener of BASIS Student's Forum AIUB chapter

- Managing BASIS event's from AIUB Computer Club side
- Conducting workshop from basis side
- On campus activation for Soft Expo , NASA Space App challenge , manage and lead the programs



DRMC Science Club (2017 – 2019)

Key responsibilities:

- Volunteer in National Science fest, Gaming fest.

ACHIEVEMENTS

- Listed 5 times for Dean's Award for Academic Excellence, AIUB

PUBLICATIONS

- Nafiz Fahad, K. O. Michael Goh, Md. Ismail Hossen, K. M. Shahriar Shopnil, Israt Jahan Mitu, Md. A. Hossain Alif, Connie Tee. (2023). Stand up Against Bad Intended News: An Approach to Detect Fake News using Machine Learning. Emerging Science Journal, Vol 7, No 4, 1247-1259.
- <https://www.ijournalse.org/index.php/ESJ/article/view/1651>