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## **Education**

## East Delta University (EDU)

Chittagong, Bangladesh

Sep. 2017 - Dec. 2021

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Learned core concepts of algorithms, data structures, software development, and Machine Learning.
- Got research experience and published my thesis on IEEE.

## Skills\_

**DevOps** Linux, Azure, Docker, Jenkins, Bitbucket Pipeline, GitHub Actions

**Back-end** FastAPI, Express, Flask, REST API, Websocket

**Programming** Python, Node.js

**Database** SQlite3, MongoDb, SQL Server, Redis

AI/ML Scikit-learn, Pandas, Numpy, XGBoost, Catboost, LLM, Langchain, RAG

## **Experience** \_

Social27, Ltd. Remote

SOFTWARE ENGINEER (BACKEND LEAD)

Jun. 2023 - Present

- Investigate and reproduce user-reported issues across complex systems, including LLM, AI models, Azure services, ChatGPT, and Langchain.
- · With my expertise in Python, FastAPI, MongoDB, Redis, and Microsoft SQL Server, I effectively debug and rectify backend issues to ensure optimal performance and reliability.
- · Apply innovative solutions to challenges in AI integration, cloud computing on Azure, and the development of scalable systems like Langchain, ensuring robust functionality and user satisfaction.

### ClearML (Allegro Artificial Intelligence, Ltd.)

Remote

SOFTWARE ENGINEER (BUG FIXING)

Feb. 2022 - Jul. 2023

- · Troubleshoot and resolved issues in the ClearML Python package using VSCode, PyCharm, TensorFlow, PyTorch, etc
- Built and implemented CI infrastructure using Bitbucket Pipelines, including unit and integration tests in Python.
- Developed technical documentation tools using Docusaurus and Sphinx, and created data processing pipelines using Jenkins Pipelines.

# Extracurricular Activity\_

#### **Microsoft Learn Student Ambassadors**

Bangladesh

May. 2020 - Dec. 2021

STUDENT AMBASSADOR

• Conducted webinar on various technical topics regarding Microsoft technologies.

- Participated in a lot of webinars hosted by the developer advocates and recruiters from Microsoft.
- Maintaining community contributions by learning and sharing knowledge along with other ambassadors across the world.

# **Opensource Contribution**

## **MagpieOS - A Custom Flavored Linux Distribution**

Bangladesh

FOUNDER & DEVELOPER

Jan. 2018 - May. 2020

- MagpieOS is an Arch Linux based custom flavored Linux Distribution for pc users.
- Featured in ItsFoss: itsfoss.com/magpieos
- Listed on Arch-based distributions official list: wiki.archlinux.org/title/Arch-based\_distributions
- Wikipedia: bn.wikipedia.org/s/bkm7

#### **Mirrorlist Manager for Arch Linux**

Bangladesh

FOUNDER & DEVELOPER

Oct. 2018 - Present

- A Qt-based desktop application for easy mirror list management in Arch Linux, developed using Python and PyQt5 Framework.
- Featured in ItsFoss: itsfoss.com/archlinux-mirrorlist-manager
- Arch User Repository: aur.archlinux.org/packages/mirrorlist-manager

FOUNDER & DEVELOPER Jul 2018 - Present

 A lightweight software for calculating any file's hash code, supports MD5, SHA1, SHA224, SHA384, SHA256, SHA512 hashing, developed using Python and PySide2.

- GitHub: github.com/Rizwan-Hasan/Free-Hash-Checker
- Sourceforge: sourceforge.net/projects/free-hash-checker

## **Research & Publications**

#### CONFERENCE PAPER

20	022	<b>Rizwan Hasan</b> , Sohrab Hossain, Fahim Irfan Alam, Mannpreet Barua (2022). Bangla Music Genre	IEEE
20		Classification Using Fast and Scalable Integrated Ensemble Boosting Framework. In IEEE.	
20	າວວ	Muhammad Sakib Khan Inan, <b>Rizwan Hasan</b> , Tabia Tanzin Prama (2022). An Integrated Expert System with a	IFFF
	)	Supervised Machine Learning based Probabilistic Approach to Play Tic-Tac-Toe. In IEEE.	ILLL
20		Muhammad Sakib Khan Inan, Rubaiath E Ulfath, Fahim Irfan Alam, Fateha Khanam Bappee, <b>Rizwan Hasan</b>	
	21	(2021). Improved Sampling and Feature Selection to Support Extreme Gradient Boosting For PCOS	IEEE
		Diagnosis. In IEEE.	
202	12.1	Muhammad Sakib Khan Inan, <b>Rizwan Hasan</b> , Fahim Irfan Alam (2021). A Hybrid Probabilistic Ensemble	IEEE
	JZI	based Extreme Gradient Boosting Approach For Breast Cancer Diagnosis. In IEEE.	

#### JOURNAL

Muhammad Sakib Khan Inan, Fahim Irfan Alam, Rizwan Hasan (2022). Deep integrated pipeline of 2022 segmentation guided classification of breast cancer from ultrasound images. In Elsevier.

**ELSEVIER** 

## **Honor and Awards**

#### INTERNATIONAL

Microsoft Learn Student Ambassador, A global group of campus leaders who are eager to help fellow Chittagong, 2020 students, create robust tech communities, and develop technical and career skills for the future. Bangladesh

## DOMESTIC

Certificate of Honour for Trainer, Conducted a 3 days long workshop on "Fundamentals of Python" as a 2020 trainer at my university under the computer club. Bangladesh

## **Presentation**

Introduction to GitHub Chittagong, Bangladesh

CONDUCTED THE SEMINAR AT MY UNIVERSITY WITHIN THE PERIOD OF MY UNDERGRADUATE COURSE.

Aug. 2017

- Explained the importance of Git version control for code maintenance.
- · Showed basic hands-on demo of GitHub platform.

## First National Workshop on "Big Data and Machine Learning (BDML 2020)"

Chittagong, Bangladesh

PRESENTED AN IDEA ON FAKE NEWS DETECTION USING A MACHINE LEARNING-BASED APPROACH

Dec. 2020

- · Workshop was held by the Dept. of Computer Science & Engineering, Chittagong University of Engineering and Technology.
- · Alongside two team members, presented an idea on Fake News Detection Using a Machine Learning-based approach.

# Writing

**Technical Writer** Dev.to

Nov. 2019 - PRESENT WRITER & MODERATOR

- Get more than 30X speedup on your Python code dev.to/techlearners/get-more-than-30x-speedup-on-your-python-code-23ol
- What is JSON? And why do you need it? dev.to/techlearners/what-is-json-and-why-do-you-need-it-21nd
- Add custom domain in a GitHub page with Cloudflare dev.to/techlearners/add-custom-domain-in-a-github-page-with-cloudflare-3goa
- How to set up a Samba Server in Ubuntu and share files seamlessly dev.to/techlearners/how-to-set-up-a-samba-server-in-ubuntu-andshare-files-seamlessly-5foa
- How to interface Oracle Database with Python and execute queries dev.to/techlearners/how-to-interface-oracle-database-with-pythonand-execute-queries-4bin
- How to setup Oracle Database 11g XE on Windows and unlock the HR user dev.to/techlearners/how-to-setup-oracle-database-11g-xe-onwindows-and-unlock-the-hr-user-37p3