





SM Firoz Ahmed Fahim

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Education

05.2018 – 08.2022 Dhaka, Bangladesh	Bachelor of Science in Computer Science and Engineering, <i>American International University Bangladesh</i> CGPA: 3.45/4.00 Last 60 credit GPA: 3.60/4.00
2014 – 2016 Khulna, Bangladesh	Higher Secondary Certificate, <i>Govt. Bangabandhu College</i> GPA: 5.00/5.00
2006 – 2014 Khulna, Bangladesh	Secondary School Certificate, <i>Khulna Zilla School</i> GPA: 5.00/5.00

Professional Experience

2022 Dhaka, Bangladesh	Undergraduate Teaching Assistant, <i>American International University Bangladesh</i> <ul style="list-style-type: none">Performed as a Teaching Assistant at American International University - Bangladesh under the supervision of Mahfuzur Rahman Sir (Lecturer) on the Theory of Computation and Computer Graphics courses
2022 – 2023	Backend Developer, <i>Fiume</i> <ul style="list-style-type: none">Collaborated with a cross-functional team to design, develop, and maintain backend systems and applications to support Fiume's business objectives.Designed and implemented RESTful APIs, ensuring efficient data exchange between the front-end and back-end systems.Developed server-side logic and business logic, ensuring seamless functionality and a great user experience for Fiume's clients.Implemented robust security measures, including authentication and authorization protocols, to protect sensitive data and ensure compliance with industry standards.

Publications

- "Healthcare Cost Patterns and Prediction: Investigating Personal Datasets using Data Analytics",** *Md Aminul Islam, Anindya Nag, Pretam Chandra, SM Firoz Ahmed Fahim, Md Mozammel Hoque, International Conference in Signal and Data Processing, 2023*
- "An Investigation into the Prediction of Annual Income Levels through the Utilization of Demographic Features Employing the Modified UCI Adult Dataset",** *Md Aminul Islam, Anindya Nag, Nilanjana Roy, Arpita Rani Dey, SM Firoz Ahmed Fahim, Arjan Ghosh, International Conference on Computing, Communication, and Intelligent Systems 2023*
- "A Survey on Wireless Sensor Network Routing Performance Optimizing and Security Techniques",** *Anindya Nag, Dishari Mandal, Nilanjana Roy, Nisarga Chand, SM Firoz Ahmed Fahim, International Conference on Frontiers in Computing and Systems, 2023*

Research Experience

Undergraduate Thesis, *Area of Research: Machine Learning, NLP*

Topic: Suicidal Tendency Detection Using Machine Learning Algorithms *

Encoding, Early Stopping, Hyper Parameter Tuning, and Machine Learning Models for Bank Fraud Detection, *Area of Research: Machine Learning and AI*

- This paper is accepted by 9th IEEE WIECON-ECE 2023

A review of Speech Emotion Recognition, *Area of Research: Machine Learning*

- The aim of the work is to provide an overview of the current state of research, different techniques and algorithms, challenges and limitations of the methods in this field.

Certificate Validation Using Blockchain Technology, *Area of Research: Blockchain*

- The aim is to use blockchain technology to create a secure, tamper-proof, and trustless mechanism for verifying the authenticity and validity of various certificates, including educational degrees, professional certifications, licenses, and other important documents, ensuring trustless verification and reducing fraud.

Extracurricular Activities

02.2022 – 01.2023
Dhaka, Bangladesh

Local Committee Vice President - AIESEC in Dhaka South, Bangladesh, *AIESEC*

AIESEC is a global platform for young people to develop their leadership potential through practical experiences of many kinds, including internships and volunteering opportunities.

- Worked as the Local Committee Vice President – outgoing Exchanges, where I solely managed the function while managing and leading a set of team members and leaders toward achieving set goals.
- Participated as a guest speaker in two International Programs in Vietnam and China.
- Built International Relationships with multiple local committees from several countries, including India, Dubai, Turkey, Brazil, Sri Lanka, Egypt, China, Thailand, Tunisia, Vietnam, Philippines.

02.2022 – 08.2022
El Salvador

Entity Support Team (EST) IR Coach, *AIESEC in El Salvador*

- Conducted training sessions to educate AIESEC members on the principles and practices of International Relations (IR)
- Facilitated meetings and negotiations with various entities, including representatives from Venezuela, Guatemala, Ecuador, Brazil, Argentina, and Peru, to foster international collaboration and partnerships.
- Assisted in the planning and execution of international projects and initiatives.
- Acted as a liaison between AIESEC in El Salvador and international stakeholders, ensuring effective communication and cooperation.

08.2021 – 01.2022
Dhaka, Bangladesh

Team Leader- AIESEC in Dhaka South, Bangladesh, *AIESEC*

- Executed my job role as a Team Leader – Education of Global Talent function which focused on creating and catering to foreign and local internship opportunities for the youth in 2021.

Projects

HCI-Smart Home Application Using Hand Gesture

- Turn on/off the Light and Fan by hand gesture through the Camera.
- Language: Python

Web Series by ASP. NET

- Admin is responsible for managing employees, expense tracking, and database handling.
- Streaming Manager is responsible for uploading videos and deleting videos.
- Package Manager is responsible for managing promo codes and making packages.
- Languages: .NET, JavaScript

Grocery Store Management System

- Product Catalog: This could include a list of all the available products.
- Shopping list: Users should be able to create and manage a list of items they need to purchase.
- Inventory management: The system should be able to track the current stock of each product.
- Languages: JavaScript, PHP, CSS

Banking Management System

- Account creation: Allow users to create new accounts with account numbers and personal information.
- Login system: Allow users to log in to their accounts using a username and password.
- Balance inquiry: Allow users to check their account balance at any time.
- Transactions: Users can make deposits, withdrawals, and transfer funds to other accounts.
- Language: Java

Skills

Python	TensorFlow
OpenCV	PyTorch
Pandas	Matplotlib
LaTeX	Java
JavaScript	ASP.NET

Languages

- English

Awards

Government Scholarship, Jessore Board

- Awarded Government Scholarship for securing 12th Position in Jessore Board in 2016

References

Prof. Dr. Md. Asraf Ali, *Professor, Department of Computer Science,*
American International University Bangladesh
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Raihan Uddin Ahmed, *Senior Lecturer,* University of West Georgia
rahmed@westga.edu

Nazia Hossain Briti, *Ph.D. Candidate,* Federation University Australia
naziahossain@students.federation.edu.au