



# SM Firoz Ahmed Fahim

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## EDUCATION

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

## PUBLICATIONS

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- [1] **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
- [2] **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
- [3] **Utilization of Encoding, Early Stopping, Hyper Parameter Tuning, and Machine Learning Models for Bank Fraud Detection**, Md Aminul Islam, Anindya Nag, Saumik Chowdhury, SM Firoz Ahmed Fahim, Arjan Ghosh, Nahi Mumtaj, *IEEE 9th International Women in Engineering Conference on Electrical and Computer Engineering*, 2023
- [4] **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

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

**Topic:** Suicidal Tendency Detection Using Machine Learning Algorithms \*

- Currently working on this paper to publish it on a Q1 Journal.
- It is affiliated with Artificial Intelligence Research & Innovation Lab - AIRIL

**Enhancing Synthetic Image Detection: Integrating Machine Learning with Fourier Transform Techniques**,  
Area of Research: Machine Learning and AI

- The aim is to develop advanced ML and DL techniques, including CNNs, using a custom dataset of real and AI-generated images to improve the accuracy of distinguishing between them.
- Apply Fourier Transform techniques to detect noise signatures typical of generative AI within our personal dataset, contributing to more robust digital forensics and content verification tools.

**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.

## WORK EXPERIENCE

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| 2025 – present<br>San Francisco, Remote | <b>Web Scraper QA Specialist, Reworkd</b> <ul style="list-style-type: none"><li>• My primary role involves reviewing and optimizing both human and AI-generated web scraping code to ensure accurate and efficient data retrieval across platforms.</li></ul>   |
| 2024 – present<br>Dhaka, Bangladesh     | <b>Research Assistant, Artificial Intelligence Research &amp; Innovation Lab - AIRIL</b> <ul style="list-style-type: none"><li>• Developing machine learning and AI models to solve complex real-world problems.</li><li>• Analyzing data to extract meaningful insights and improve predictive algorithms.</li><li>• Collaborating on interdisciplinary research projects focused on AI-driven solutions.</li><li>• Applying advanced algorithms to enhance model accuracy and performance across various applications.</li></ul>  |
| 2022<br>Dhaka, Bangladesh               | <b>Undergraduate TA - Internship, American International University Bangladesh</b> <ul style="list-style-type: none"><li>• 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</li></ul>  |
| 2022 – 2023<br>Dubai, Remote            | <b>Backend Developer, Fiume</b> <ul style="list-style-type: none"><li>• Collaborated with a cross-functional team to design, develop, and maintain backend systems and applications to support Fiume's business objectives.</li><li>• Designed and implemented RESTful APIs, ensuring efficient data exchange between the front-end and back-end systems.</li><li>• Developed server-side logic and business logic, ensuring seamless functionality and a great user experience for Fiume's clients.</li><li>• Implemented robust security measures, including authentication and authorization protocols, to protect sensitive data and ensure compliance with industry standards.</li></ul> |

## EXTRACURRICULAR ACTIVITIES

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| 02.2022 – 01.2023<br>Dhaka, Bangladesh | <b>Local Committee Vice President - AIESEC in Dhaka South, Bangladesh, AIESEC</b> <ul style="list-style-type: none"><li>• 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.</li><li>• Participated as a guest speaker in two International Programs in Vietnam and China.</li><li>• Built International Relationships with multiple local committees from several countries, including India, Dubai, Turkey, Brazil, Sri Lanka, Egypt, China, Thailand, Tunisia, Vietnam, Philippines.</li></ul>  |
| 02.2022 – 08.2022<br>El Salvador       | <b>Entity Support Team (EST) IR Coach, AIESEC in El Salvador</b> <ul style="list-style-type: none"><li>• Conducted training sessions to educate AIESEC members on the principles and practices of International Relations (IR)</li><li>• Facilitated meetings and negotiations with various entities, including representatives from Venezuela, Guatemala, Ecuador, Brazil, Argentina, and Peru, to foster international collaboration and partnerships.</li><li>• Assisted in the planning and execution of international projects and initiatives.</li><li>• Acted as a liaison between AIESEC in El Salvador and international stakeholders, ensuring effective communication and cooperation.</li></ul> |
| 08.2021 – 01.2022<br>Dhaka, Bangladesh | <b>Team Leader- AIESEC in Dhaka South, Bangladesh, AIESEC</b> <ul style="list-style-type: none"><li>• 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.</li></ul>   |

## PROJECTS

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### Quantum CLIP

- Integrated Quantum Circuits, BERT in CLIP.

### Web Series by ASP. NET

A web series management system with roles for Admin, Streaming Manager, and Package Manager.

### Smart Home Application Using Hand Gesture

- An OpenCV project to control the Light and Fan using hand gestures detected through the camera.

### Distributed Logging System

- A distributed logger implementation built using Go, ReactJS, MongoDB, RabbitMQ featuring filters, realtime updates and permissioned user access levels

### Railway Game

- A decentralized gaming application consisting of NFTs as in-game items, abilities based on NFT metadata and much more

### Hydromint

- A SaaS application for creating and managing NFT Projects with lots of customization and configurations.

## SKILLS

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

## LANGUAGES

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- English

## ACHIEVEMENTS & AWARDS

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2020	<b>International Best Buddy</b> , <i>AIESEC in Vietnam</i>
2018	<b>Best Presenter Award</b> , <i>American International University Bangladesh</i>
2016	<b>Government Scholarship</b> , <i>Jessore Board</i> <ul style="list-style-type: none"><li>• Awarded Government Scholarship for securing 12th Position in Jessore Board</li></ul>

## REFERENCES

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**Prof. Dr. Md. Asraf Ali**, *Professor, Department of Computer Science, American International University Bangladesh*  
asrafali@aiub.edu

**Raihan Uddin Ahmed**, *Senior Lecturer, Department of CS, University of West Georgia*  
rahmed@westga.edu

**Md Kishor Morol**, *Adjunct Professor, Department of CS, St. Thomas University*  
mmorol@stu.edu