SM Firoz Ahmed Fahim

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in **LinkedIn:** https://www.linkedin.com/in/firozfahim/

🌐 **Website:** https://f1roz.github.io/Firoz/

📍 **Home:** Khulna (Bangladesh)

ABOUT ME

I am a dedicated Computer Science and Engineering student with a strong focus on Artificial Intelligence and Data Science. My research interests include deep learning and multimodal representation learning, with hands-on experience in PyTorch, Transformers, and Contrastive Learning. I have contributed to independent research projects and worked as a Research Assistant, as well as a Web Scraping QA Specialist at Reworkd, where I developed practical expertise in data analysis, automation, and quality assurance.

EDUCATION AND TRAINING

Bachelor of Science in Computer Science and Engineering

American International University Bangladesh, [05/2018 – 03/2023]

City: Dhaka | **Country:** Bangladesh | **Website:** https://www.aiub.edu/ | **Final grade:** 3.45 out of 4.00 | **Thesis:** Suicidal Tendency Detection Using ML Algorithms

Higher Secondary Certificate

Govt. Bangabandhu College, Khulna [2014 – 2016]

City: Khulna | **Country:** Bangladesh | **Final grade:** 5.00 out of 5.00

Secondary School Certificate

Khulna Zilla School [2006 – 2014]

City: Khulna | **Country:** Bangladesh | **Final grade:** 5.00 out of 5.00

WORK EXPERIENCE

🏢 *Reworkd – YC-Backed & AI Grant-Funded Startup (Seed Funding by Paul Graham)* – San Francisco, United States

City: San Francisco | **Country:** United States

Web Scraping QA Specialist

[04/2025 – Current]

- Contributing to the development of a scalable web scraping infrastructure, supporting high-volume and multi-platform data retrieval.
- Building and maintaining automated scraping bots to extract structured and unstructured data efficiently across diverse websites.
- Reviewing, optimizing, and debugging both human-written and AI-generated scraping code to ensure accuracy, efficiency, and reliability.

🏢 *Artificial Intelligence Research & Innovation Lab - AIRIL* – Dhaka, Bangladesh

City: Dhaka | **Country:** Bangladesh

Research Assistant

[07/2024 – 03/2025]

- Developed machine learning and AI models to solve complex real-world problems.
- Analyzed data to extract meaningful insights and improve predictive algorithms.
- Applied advanced algorithms to enhance model accuracy and performance across various applications.

🏢 *Fiume* – Dubai, United Arab Emirates

City: Dubai | **Country:** United Arab Emirates

Backend Developer

[03/2023 – 04/2024]

- 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.

🏢 *American International University Bangladesh* – Dhaka, Bangladesh

City: Dhaka | **Country:** Bangladesh

Undergraduate Teaching Assistant

[05/2022 – 08/2022]

- Provided individual and small group instruction to students on complex C++ Programming concepts.
- Assisted with grading assignments and quizzes, offering constructive feedback to enhance student understanding.
- Prepared and delivered supplementary learning materials.

SKILLS

Python / PyTorch / C# ASP.NET(core MVC & MVC 5) / Java / Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. / MySQL / Playwright / Selenium

PUBLICATIONS

[2025]

[Accepted by 16th ICCCNT 2025] Advancing Sentiment Analysis Through Natural Language Processing and Deep Learning

Authors: Arjan Ghosh, Shovon Mandal, Kazi Minhazul Islam, SM Firoz Ahmed Fahim, Kazi Asif Ahmed, Rashik Reza Fahim, Swarojani Dhar and Aishwarja Paul Sourav | **Journal Name**: 16th International IEEE Conference on Computing Communication and Networking Technologies

[2025]

[Accepted by 16th ICCCNT 2025] Revolutionizing Academic Learning and Research with the Integration of Leap Motion and ARCore in Android

Authors: Shovon Mandal, Arjan Ghosh, Asadullah Monsur, SM Firoz Ahmed Fahim, Kazi Asif Ahmed, Kazi Minhazul Islam, Aishwarja Paul Sourav, Rashik Reza Fahim and Swarojani Dhar | **Journal Name**: 16th International IEEE Conference on Computing Communication and Networking Technologies

[2023]

Healthcare Cost Patterns and Prediction: Investigating Personal Datasets using Data Analytics

Authors: Md Aminul Islam, Anindya Nag, Pretam Chandra, SM Firoz Ahmed Fahim, Md Mozammel Hoque | **Journal Name**: International Conference in Signal and Data Processing, 2023

[2023]

An Investigation into the Prediction of Annual Income Levels through the Utilization of Demographic Features Employing the Modified UCI Adult Dataset

Authors: Md Aminul Islam, Anindya Nag, Nilanjana Roy, Arpita Rani Dey, SM Firoz Ahmed Fahim, Arjan Ghosh | **Journal Name**: International Conference on Computing, Communication, and Intelligent Systems 2023

[2023]

[Utilization of Encoding, Early Stopping, Hyper Parameter Tuning, and Machine Learning Models for Bank Fraud Detection](#)

Authors: Md Aminul Islam, Anindya Nag, Saumik Chowdhury, SM Firoz Ahmed Fahim, Arjan Ghosh, Nahi Mumtaj | **Journal Name**: IEEE 9th International Women in Engineering Conference on Electrical and Computer Engineering, 2023

[2023]
[A Survey on Wireless Sensor Network Routing Performance Optimizing and Security Techniques](#)

Authors: Anindya Nag, Dishari Mandal, Nilanjana Roy, Nisarga Chand, SM Firoz Ahmed Fahim | **Journal Name**: International Conference on Frontiers in Computing and Systems, 2023

PROJECTS

Quantum CLIP Integrated Quantum Circuits, BERT in CLIP.

Link: https://github.com/F1roz/QuantumCLIP

Web Series by ASP. NET A web series management system with roles for Admin, Streaming Manager, and Package Manager.

Link: https://github.com/F1roz/Web-Series--ASP.NET

Smart Home Application Using Hand Gesture An OpenCV project to control the Light and Fan using hand gestures detected through the camera.

VOLUNTEERING

[08/2025 – Current] Dhaka, Bangladesh
National Head of Youth Operations - AIESEC in Bangladesh
   • Leading national strategy design for exchange operations, analyzing performance data, and identifying process gaps across multiple local committees.
   • Developing insights from program data to improve customer flow and conversion rates.
   • Using metrics and dashboards to track KPIs, ensuring data-driven decision-making.
   • Facilitating communication between university representatives, exchange participants, and internal teams.
   • Building and maintaining international partnerships with [AIESEC](#) entities in over 106 countries to enhance exchange program performance and customer flow.
   • Negotiating partnership terms, monitoring outcomes, and aligning global strategies to ensure mutual value and improved operational efficiency.

[02/2022 – 02/2023] Dhaka, Bangladesh
Local Committee Vice President - AIESEC in Dhaka South, Bangladesh
   • Worked as the Local Committee Vice President – outgoing Exchanges at AIESEC in Dhaka South, Bangladesh, 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.

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RECOMMENDATIONS

Name: Prof. Dr. Md. Asraf Ali | Professor, Department of CS, American International University Bangladesh
Prof. Dr. Md. Asraf Ali was my undergraduate thesis supervisor. I worked under him as a Research Assistant at AIRIL.
Email: asrafali@aiub.edu

Name: Srijan Subedi | Co-Founder of Reworkd
Mr. Srijan is the Co-Founder of Reworkd
Email: srijan@reworkd.ai

Name: Md Kishor Morol | Adjunct Professor, Department of CS, St. Thomas University, USA
Md Kishor Morol was my undergraduate course instructor.
Email: mmorol@stu.edu

Name: Raihan Uddin Ahmed | Senior Lecturer, Department of CS, University of West Georgia, USA
Mr. Raihan Uddin Ahmed was my undergraduate course instructor.
Email: rahmed@westga.edu