

# Md Tanvir Alam Sifat

[tanviralam0047@gmail.com](mailto:tanviralam0047@gmail.com)

+8801726042222

<https://www.linkedin.com/in/md-tanvir-alam-sifat/>

<https://tanvir00007.github.io/mdtanviralam>

## RESEARCH INTEREST

Information and Communication Technologies for Development (ICT4D) | Human-Computer Interaction | AI for Social Good

## EDUCATION

<b>Independent University, Bangladesh (IUB), Bangladesh</b> <i>B.Sc. in Computer Science</i> CGPA: 3.32/4.00	<i>Jun 2013 – Jun 2017</i>
<b>Dhaka City College, Bangladesh</b> <i>Higher Secondary Certificate in Science</i> CGPA: 4.30/5.00	<i>Jan 2010 - Feb 2012</i>
<b>Willes Little Flower School and College, Bangladesh</b> <i>Secondary School Certificate in Science</i> CGPA: 5.00/5.00	<i>Jan 2008 - Feb 2010</i>

## PROFESSIONAL EXPERIENCE

<b>Manager</b> <b>Enterprise Application, Microfinance Technology, BRAC</b> <ul style="list-style-type: none"><li>Manage end-to-end development and deployment of Enterprise Software Applications, ensuring alignment with Organization Technological Strategy, Financial Application layers, and stakeholder needs.</li><li>Lead Business/Software Requirements Documentation, apply Project Management principles, coordinate budget management, risk mitigation, and vendor collaboration to support program's 7m clients and drive Digital roadmap development.</li></ul>	<i>Feb 2020 - Current</i>
<b>Assistant Manager</b> <b>Software Development, Digicon Technologies Ltd</b> <ul style="list-style-type: none"><li>Led software projects as a Team Lead, handling client interactions and overseeing the entire project life cycle from initiation to final implementation.</li><li>Took on diverse responsibilities, including software architecture, database design, development, bug resolution, and quality assurance, ensuring comprehensive management and successful delivery.</li></ul>	<i>Jan 2018 - Jan 2020</i>
<b>Executive Trainer</b> <b>Bangladesh Computer Council (BCC)</b> <ul style="list-style-type: none"><li>Conducted "Graphics Designing" training for disabled students as part of a Government Project organized by the Centre for Services and Information on Disability (CSID), powered by the Bangladesh Computer Council (BCC).</li></ul>	<i>Oct 2017 – Dec 2017</i>
<b>Software engineer</b> <b>Binary Case</b> <ul style="list-style-type: none"><li>Designed responsive websites, developed desktop applications, created mobile applications, and implemented ERP systems.</li></ul>	<i>Jan 2017 - Dec 2017</i>
<b>Research Assistant</b> <b>Independent University, Bangladesh</b> <ul style="list-style-type: none"><li>Conducted a research project titled "Role-playing Educational Game as a Learning Tool" in collaboration with Professor Farruk Ahmed from IUB. Developed an educational game for mothers called "The Adventure of a New Mother."</li></ul>	<i>Mar 2016 - Feb 2017</i>

## SKILLS

- Software Architecture Design & Development:** Over 20+ Software Projects.
- Project Management and Business Analysis:** Over 30+ Digitization Projects in Agile Methodologies.
- Programming & Database:** PHP, C/C++, JavaScript, Java, Node.js, Android, MySQL, PostgreSQL
- API Design and Management:** Designed and Managed development over 50+ Rest API, 5 SOAP API
- Robotics and IOT:** Completed 2 Robotics & IOT projects
- Mobile Application:** Designed, Developed and Implemented 5 Mobile Application Projects

## MAJOR PROJECTS

### **Biometric Solutions for Financial Access**

*Sept 2024 – Mar 2025  
Microfinance, BRAC*

- Designed and led the development of a biometric system which enabled secure fingerprint-based client enrollment and loan disbursement in remote areas, eliminating the need for branch visits. Successfully piloted across 7 branches, onboarded 1,200+ clients and completed 100+ loan disbursement through doorstep services. The solution significantly improved operational efficiency, security and financial access for remote regions.
- Currently advancing the system with AI-powered image-based biometric verification to replace fingerprint devices, aimed at scalable nationwide rollout across 3,000+ branches to boost financial inclusion and reduce fraud.

### **Digitization of Credit service (DCS)**

*Sept 2023 – Dec 2024  
Microfinance, BRAC*

- Implemented a digitized client onboarding process, profile updates, loan proposal, processing, analysis, approval, disbursement, and consent collection through 2 mobile apps and 1 web portal. Used by 30k+ staff across BRAC Microfinance to serve 10 million clients. Integrated 20+ APIs.

### **Efficient and Secure Repayment Collection through MFS**

*Mar 2021-Sept 2021  
Microfinance, BRAC*

- MFS service in BRAC Microfinance's collection app, facilitating 20k+ field officials to collect loan installments and savings securely by MFS service. Benefiting 10 million clients, saving time and money. Project involved bKash (MFS Partner) webhook API and 2 BRAC ERP API integrations.

### **Digital Cash Transfer (DCT)**

*Jan 2022-Apr 2022  
Microfinance, BRAC*

- Established a versatile platform for all 17+ BRAC programmes, facilitating beneficiary disbursements and serving as an alternative loan disbursement channel for BRAC Microfinance. Required integration with 4 key bKash (MFS partner).

### **Branch Management Supervision (BMSM) Mobile App**

*Jun 2021-Dec 2022  
Microfinance, BRAC*

- Managed Development of a mobile app linked to BRAC Microfinance's core banking system, catering to reporting needs of 3000+ Branch Managers. Offering 30+ reports, it enhances managerial oversight, decision-making efficiency, timesaving, and reduces paper usage.

### **ATOM Robot: Revolutionizing Indoor Service with IoT and Robotics**

Powered by LEVERnGEAR Limited

*Jan 2020- Feb 2021  
R&D Project*

- ATOM has a dynamic path-planning capability. It uses IR sensors for line-grid paths or a camera for virtual grid paths and fiducial markers. Versatile applications include goods transportation, floor cleaning, delivery services, and more. Controlled via mobile apps, it can handle payloads of up to 20kg+ efficiently.

### **Falcon Training Device: Mobile-Intranet Enabled device for Off-Grid Operation in remote area**

Powered by: A Bahrain Software Company

*Jan 2021 – Oct 2021  
R&D Project*

- This work introducing a falcon training device utilizing radio frequency for operation in remote locations like deserts. Controlled via mobile apps accessing intranet connectivity, ensuring seamless operation even where network options are unavailable.

## OTHER PROJECTS

- Digitized Client Interaction Point for RMG workers
- Digitalization of Call center for informal majority
- Social Media Monitoring Tool & Chatbot
- Hotel Management System
- Dhaka City's Waste Management Project & Dhaka City's Dengue Campaign Project (Complaint and Query Management)
- Central Processing Center-CPC Project of National Board of Revenue (NBR), Bangladesh

- Grameenphone Postpaid Credit and Collection CRM (GPCNC-CRM)
- Customer relationship & Complaint Management System (CMS)
- Transport Management System (Web Application & Mobile Application)
- Doctor's Appointment Management System (Web app)
- Inventory Management System (Web Applications)
- ChaalDaal - Shop Management (POS)
- RPG Game Development - Mother and Child health care
- SEFF- Fire Monitoring System
- Mother and Child Health Care System

## PUBLICATIONS

- M. R. Bashar, A. A. Arabi, R. S. Tipu, M. T. A. Sifat, M. Z. Ibn Alam and M. A. Amin, "2D surface mapping for mine detection using wireless network," 2017 2nd International Conference on Control and Robotics Engineering (ICCRE), Bangkok, Thailand, 2017, pp. 180-183, doi: 10.1109/ICCRE.2017.7935066.

## RESEARCH

- Falcon Training Device: Mobile-Intranet Enabled device for Off-Grid Operation in remote area (2022)
- ATOM Robot: Revolutionizing Indoor Service with IoT and Robotics (2021)
- Role-playing Educational Game as a Learning tool - The Adventure of a New Mother (2017)

## AWARDS & HONORS

- **Nominated for High Potential Leadership Journey** *BRAC, 2025*
- **Best Contributor Award** *BRAC Microfinance Technology, 2021,2022,2023,2024*
- **Loyal Knight Award** *Digicon Technologies Ltd., 2019*

## LEADERSHIP AND COMMUNITY ENGAGEMENT

- President of "Rotaract Club of Shaymoli Pioneer"
- Secretary of "JUKTI-Club of CSE-IUB"
- Executive member of "BASIS Student Forum, IUB"
- Managed numerous National and International Events including:
  - Microsoft Imagine Cup 2014
  - NASA Space Apps 2015, 2016
  - Google Dev Fest 2016
  - Bangladesh Internet Week 2015
- Participated as an Instructor in "Blender Workshop 2014-2015"

## LICENSES & CERTIFICATIONS

- Digital Finance for All: Building Formal Financial Services for the Informal Majority - Digital Frontiers Institute
- Certified Business Analysis Professional (CBAP) – PMSHuHaRi®
- Business Analysis for Project Managers – IIBA
- Learning Digital Business Analysis – IIBA
- Project Management for Creative Projects - Project Management Institute
- Software Project Management Foundations - Project Management Institute
- Ethical Hacking: Introduction to Ethical Hacking - CompTIA
- Design Thinking: Understanding the Process - Project Management Institute
- Design Thinking: Implementing the Process - Project Management Institute

## REFERENCES

Md Ashraful Amin  
 Professor  
 School of Engineering, Technology and Sciences  
 Independent University, Bangladesh  
 Email: [aminmdashraful@iub.edu.bd](mailto:aminmdashraful@iub.edu.bd)

Aunnoy K Mutasim  
 Postdoctoral researcher  
 School of Interactive Arts & Technology  
 Simon Fraser University  
 Email: [amutasim@sfu.ca](mailto:amutasim@sfu.ca)