Md Tanvir Alam Sifat

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RESEARCH INTEREST

Information and Communication Technologies for Development (ICT4D) | Human-Computer Interaction | Digital Financial Services (DFS) | AI for Social Good | ICT Infrastructure for Development | IoT for Development | Robotics in Public Services

EDUCATION

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

PROFESSIONAL EXPERIENCE

Manager   *Feb 2020 - Current*
Enterprise Application, Microfinance Technology, BRAC
- Manage end-to-end development and deployment of Enterprise Software Applications, ensuring alignment with Organization Technological Strategy, Financial Application layers, and stakeholder needs.
- 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.

Assistant Manager   *Jan 2018 - Jan 2020*
Software Development, Digicon Technologies Ltd
- Led software projects as a Team Lead, handling client interactions and overseeing the entire project life cycle from initiation to final implementation.
- Took on diverse responsibilities, including software architecture, database design, development, bug resolution, and quality assurance, ensuring comprehensive management and successful delivery.

Executive Trainer   *Oct 2017 – Dec 2017*
Bangladesh Computer Council (BCC)
- 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).

Software engineer   *Jan 2017 - Dec 2017*
Binary Case
- Designed responsive websites, developed desktop applications, created mobile applications, and implemented ERP systems.

Research Assistant   *Mar 2016 - Feb 2017*
Independent University, Bangladesh
- 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.

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, Andrioid MySQL, PostgreSQL
- **API Design and Management:** Designed and Managed development over 50+ Rest API, 5 SOAP API

- **Robotics an 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
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

- 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 & REASEARCH

- 2D Surface Mapping for Mine Detection via Wireless Networking", ICCRE2017-077 (Status: Published)
- RPG Game Development - Mother and Child health care (Status: unpublished)
- ATOM Robot: Revolutionizing Indoor Service with IoT and Robotics (Status: unpublished)
- Falcon Training Device: Mobile-Intranet Enabled device for Off-Grid Operation in remote area (Status: unpublished)

AWARDS & HONORS

- **Nominated for High Potential Leadership Journey**   *BRAC, 2025*
- **Best Contributor Award**   *BRAC Microfinance Technology, 2021,2022 & 2023*
- **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
- Business Analyst and Project Manager Collaboration - IIBA
- Learning Digital Business Analysis – IIBA
- Requirements Elicitation and 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