

# MD ALVI HASAN EMON

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## WORK EXPERIENCE

<b>Northern University Bangladesh, Dhaka, Bangladesh</b> <i>Research &amp; Development Team, IEEE</i>	<i>Jan 2025 - Present,</i>
<b>Freelance Data Analyst &amp; UI/UX Designer</b> <i>(Part-time, Remote)</i> - Designed and implemented interactive dashboards and data visualization solutions for clients. - Developed responsive UI/UX designs for web and mobile applications, enhancing user engagement. - Optimized WordPress websites for speed, security, and SEO.	<i>Jul 2019 - Present</i>
<b>GAOTek Inc., Manhattan, USA</b> <i>Web Developer (Remote)</i>	<i>May 2024 - Jan 2025</i>
<b>ONE XI LTD, Punjab, Pakistan</b> <i>UI Team (Contract, Remote):</i> Managed a team of UI/UX associates.	<i>Jun2024 - Sep 2024</i>

## EDUCATION

<b>Northern University Bangladesh, Dhaka, Bangladesh</b> <i>BSc. in Computer Science &amp; Engineering</i> Present Cumulative CGPA: 3.79/4.00	<i>Jan 2023 - Jun 2026</i>
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## PUBLICATIONS

**Submitted Paper (29 Aug 2025):** Tahmid Hasan Rafi, Jannat Rosul Nisha, **MD Alvi Hasan Emon**, Abdul Aziz  
“Blockchain Enabled Smart KYC: Changing the Paradigm of Customer Identification and Access to Loans in Financial Services”, 6th ICTP 2025, Bangladesh.

## ONGOING RESEARCH

- Zero-Knowledge Proofs for Ethical and Sustainable Supply Chains (zkSync)
- IntelliDrug: AI-driven mapping of pathways in modern drug discovery
- Smart Home Energy Optimization: Applying IoT and machine learning to reduce energy consumption.
- Cross-Lingual Sentiment Analysis: Using NLP to analyze sentiment across multiple languages.
- Blockchain-Based Supply Chain Auditing: Leveraging decentralized ledgers to track product origin and authenticity.
- Predictive Maintenance for Manufacturing Equipment: Using sensor data and ML models to anticipate machine failures.
- Automated Resume Screening System: Developing an AI model to analyze and rank job applicants.
- Personalized Learning Recommendation Engine: Recommender system for adaptive e-learning platforms.

## PROJECTS

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ABS-NFT Platform: [Github](#)

Blockchain-Based Cryptocurrency Platform: Github

Bank Account System: Github

## AWARDS AND ACHIEVEMENTS

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- **Departmental Excellence Award in Blockchain Research** – 2025
- **Best UI/UX Design Project** – University Tech Carnival 2024
- **Dean's Merit List** – Outstanding Academic Performance 2023

## RESEARCH SKILLS

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Blockchain, Machine Learning, Deep Learning, Signal Processing, Computer Vision, Image Processing

## TECHNICAL SKILLS

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**Programming:** Python, Java, C, C++, HTML, CSS, Assembly  
**ML Tools:** Keras, Tensorflow, Matlab, OpenCV, Pytorch  
**Networking:** Cisco Packet Tracer  
**Robotics:** Arduino, Raspberry Pi, Jetson Nano  
**Databases:** SQL, MySQL

**Frameworks:** Django, Bootstrap  
**App Development:** Unity  
**Operating Systems:** Linux  
**Software Tools:** Latex, VOSviewer, Bibexcel, Microwind, Codeblocks, Pycharm, Prolog, Figma

## REFERENCES

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**Engr. Sarah Lee**  
Blockchain Research Lead, TechLabs  
✉ [sarah.lee@techlabs.com](mailto:sarah.lee@techlabs.com)

Dr. Jonathan Clarke  
Professor of Computer Science,  
Montclair State University, NJ, USA  
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