



## MD FAHIM MUNTASIR

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### ABOUT ME

I hold a Bachelor's degree in Computer Science and Technology, with strong foundations in software development, algorithm design, and data analysis. I have completed academic projects, including a web-based multi-vendor ads management system, and gained hands-on experience in Embedded Systems, AI, and Web Development. Proficient in Python, Java, C++, C#, SQL, and HTML, I am eager to pursue research in AI-driven embedded systems, smart sensing, and innovative technology solutions that integrate hardware and software to tackle real-world challenges.

### WORK EXPERIENCE

**Adivasi Unnayan Sangstha (AUS) – Netrokona, Bangladesh**

#### Finance and Admin Coordinator

[ Jun 2025 – Current ]

**Project:** Integrated Community-Based Center for Child Care, Protection, and Swim Safe Facilities (ICBC)

**Implemented by:** Bangladesh Shishu Academy under the Ministry of Women and Children Affairs

##### Job Responsibilities:

- Financial Management, Reporting & Payroll
- Fund Release & Government Liaison
- VAT/Tax Compliance & Audit Coordination
- Field Monitoring & Data Collection (Kobo)
- General Administrative Duties

##### Relevant Trainings/Workshops:

- Orientation on Monitoring, Evaluation, Accountability & Learning (MEAL) Framework, Netrokona, [ 16/05/2025 – 18/05/2025 ]

**Adivasi Unnayan Sangstha (AUS) – Sunamganj, Bangladesh**

#### Early Childhood Care and Development (ECCD) Officer

[ Mar 2024 – May 2025 ]

**Project:** Integrated Community-Based Center for Child Care, Protection, and Swim Safe Facilities (ICBC)

**Implemented by:** Bangladesh Shishu Academy under the Ministry of Women and Children Affairs

##### Job Responsibilities:

- Program Implementation & Quality Assurance
- Team Supervision & Capacity Building
- Stakeholder Coordination & Community Engagement
- Monitoring, Evaluation & Reporting
- Training & Curriculum Support

##### Relevant Trainings/Workshops:

- Trainers Training, Sunamganj, [ 25/05/2024 – 31/05/2024 ]
- District Level Workshop on "Bridging Leadership for Collaboration," Mymensingh, [ 01/02/2025 – 03/02/2025 ]

## EDUCATION AND TRAINING

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### Bachelor of Engineering

**Hubei University of Technology** [ Sep 2019 – Dec 2023 ]

City: Wuhan | Country: China | Field(s) of study: Computer Science and Technology | Final grade: 3.78 out of 5 and Average 88.58 | Thesis: Classified Multi-Vendor Ads Management Website

### Higher Secondary Certificate

**Varendra College** [ Jul 2016 – Jun 2018 ]

City: Rajshahi | Country: Bangladesh | Field(s) of study: Science | Final grade: 3.75 out of 5

### Secondary School Certificate

**Shirol Govt. High School** [ Jan 2014 – Mar 2016 ]

City: Rajshahi | Country: Bangladesh | Field(s) of study: Science | Final grade: 4.94 out of 5

## SKILLS

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### Programming Language

C / C++ / C# / Python / Java / MySQL / SQL / HTML

### Software

Visual Studio Code / Visual Studios / IntelliJ IDEA / Proteus / Ubuntu / MATLAB / Figma / Adobe Illustrator / Android Studio / Microsoft Office / Microsoft Word / Microsoft Excel / Microsoft PowerPoint

### Others

Data Structure / Data Analysis / Web Development / Web Design

## PROJECTS

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**Undergraduate Graduation Project (Thesis)** - Classified Multi-Vendor Ads Management Website

**The Banker's Algorithm** - Implemented Banker's Algorithm in C++ for safe resource allocation and deadlock avoidance.

Link: <https://github.com/fahimuntasir/The-Banker-s-Algorithm>

**Reimplementing a Doubly Linked Lists** - Redesigned a doubly linked list in Java, improving efficiency and functionality while demonstrating OOP principles.

Link: <https://github.com/fahimuntasir/Re-Implementing-a-doubly-Linked-lists>

**Snake Game Player** - Developed a Snake Game Player in Proteus with microcontroller-based embedded system design.

Link: <https://github.com/fahimuntasir/Snake-Game-Player>

**Online Shopping System** - Designed an Online Shopping System UI in Figma, enhancing usability and visual design.

Link: <https://www.figma.com/file/aX8DLY34OtVqO1Hlo7le8b/E-Commerce-App-Fahim?type=design&nodeid=0-1&mode=design>

**Material Inventory Management System** - Developed a Material Inventory Management System using C# and the .NET framework to manage inventory items.

Link: <https://github.com/fahimuntasir/Material-Inventory-Management-System>

## RESEARCH INTEREST

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### Embedded Artificial Intelligence Systems

- Integration of artificial intelligence into hardware and embedded platforms.

### Internet of Things (IoT) and Smart Devices

- Design and implementation of intelligent, interconnected systems for real-world applications.

### AI-Driven Signal and Image Processing

- Applying deep learning to optimize electrical and electronic signal interpretation.

### Edge Computing and Cyber-Physical Systems

- Developing low-latency, distributed intelligent systems for industrial and communication applications.

### VLSI Design and Hardware Acceleration for AI

- Energy-efficient hardware design for neural network processing and automation.

### Smart Grid and Renewable Energy Systems

- Intelligent monitoring, communication, and optimization in modern power networks.

### Wireless Communication and 5G/6G Technologies

- AI-based optimization of communication networks and signal transmission.

### Self-Powered Sensing and Energy Harvesting Systems

- Sustainable electronic systems integrating sensing, computation, and power management.

### Human-Computer Interaction and Intelligent Robotics

- Developing autonomous systems combining sensors, control, and AI algorithms.

### Machine Learning for Electronic System Optimization

- Using AI to enhance the performance and reliability of electrical and electronic systems.

### Intelligent Control and Automation Systems

- Applying AI and deep learning for adaptive control in robotics and industrial automation.

### Signal Processing and Machine Learning Integration

- Using AI-driven algorithms for image, speech, and data signal analysis.

### Self-Powered Sensing and Energy Harvesting Systems

- Developing innovative sensors that integrate electronics, AI, and sustainable power solutions.

## LANGUAGE SKILLS

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**Mother tongue(s):** Bengali

**Other language(s):**

### English

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

**SPOKEN PRODUCTION** B1 **SPOKEN INTERACTION** B1

### Chinese

**LISTENING** A1 **READING** A1 **WRITING** A1

**SPOKEN PRODUCTION** A1 **SPOKEN INTERACTION** A1

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

## HONOURS AND AWARDS

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[ Dec 2022 ] Hubei University of Technology  
**Outstanding International Student** Awarded with Second-class Scholarship

[ Dec 2021 ] Hubei University of Technology  
**Model Student** Awarded with Third-class International Outstanding Student Scholarship

## RECOMMENDATIONS

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**Name: Jianxia Chen** | Professor  
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