

Md. Shaparan Ahammed

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OBJECTIVE

Computer science and Engineering student with hands-on experience in software development, computer vision and machine learning. Proficient in Python, Java, C#, PHP, Nextjs, Tailwind CSS, MySQL and deep learning frameworks. Researching YOLO based object detection, looking for a Software Engineering or Machine Learning internship opportunity where I can use my technical and analytical skills to solve real world challenges.

EDUCATION

Bachelor's Degree, Computer Science and Engineering American International University Bangladesh (AIUB).	2023-Present
Higher Secondary Certificate (HSC) Comilla Government City College .	2020-2022
Secondary School Certificate (SSC) Comilla Modern High School .	2015-2019

SKILLS

- **Programming Languages:** C++, Java, Python, C#, Tailwind CSS
- **Framework:** Next.Js
- **Web Development:** HTML, CSS, JavaScript, PHP, WordPress/WooCommerce
- **Windows:** Ubuntu and Kali
- **Data Science & ML:** NumPy, TensorFlow, YOLO, OpenCV, R
- **Engineering Tools:** MATLAB, Arduino, Figma
- **Database:** MySQL, Oracle
- **Productivity Tools:** Microsoft Word, Excel, PowerPoint
- **Competitive Programming:** Hacker Rank (Python)

PROJECTS

JerseyCraft	<i>Next.js · Stripe · Oneentry · Tailwind CSS</i>
▪ A fast online store for sports jerseys, letting users customize products and tracking full app performance. ▪ Added secure Stripe Checkout and automatic Webhooks so payments and orders are processed without manual work.	
Internship Management System	<i>HTML · CSS · JS · PHP · MySQL</i>
▪ Full-stack web application for managing student internship applications, supervisor assignments, and status tracking. ▪ Implemented CRUD operations with MySQL backend and dynamic UI using JavaScript.	
Hospital Management System	<i>C# · Desktop Application</i>
▪ Desktop application for managing patient records, doctors, appointments and staff efficiently.	
Tour Management System	<i>Java</i>
▪ Application to manage club operations, team records, and member information with a structured OOP design.	
Fund-Raiser Management System	<i>MySQL · Database Design</i>
▪ Database-driven system for tracking fundraising campaigns, donors, and donations using normalized schema design.	
GenomeRX System	<i>Software Engineering · Scrum – AI/Healthcare</i>
▪ AI-powered web system for Antimicrobial Resistance (AMR) prediction using genomic data, developed as a Software Engineering project.	

RESEARCH

Robustness-Aware Fire & Smoke Detection: An XAI-Guided Diagnosis-to-Mitigation Framework – (Accepted, IEEE CSDE 2026)

[AIUB | Verification-gated Diagnosis-to-Mitigation (D2M) framework for YOLO-based fire/smoke detection: box-anchored Grad-CAM to diagnose robustness failures under noise, blur, and low-light corruption, followed by targeted augmentation validated via XAI attention checks]

EXPERIENCES

- Ex Member, IEEE AIUB Student Branch
- Web Administrator at a Jewelry shop [Lopa Jewellaries] (Part-Time Job) *2025 - present*

CERTIFICATIONS

- IT Essentials- Cisco Networking Academy
- AI & Machine Learning Bootcamp Batch – 8 [OSTAD]

REFERENCES

- Available Upon Request