

EMAN FATIMA

+92 3038775831

✉ emanfatima60860@gmail.com

in www.linkedin.com/in/eman-fatima-512a01246

EDUCATION

The Islamia University of Bahawalpur

Bahawalpur, Pakistan

BS in Cybersecurity and Digital Forensics, CGPA: 3.47

◦ **Relevant Courses:** Network Security, Cyber Forensic Analysis, Cryptography, AI

PROFESSIONAL SUMMARY

- Cybersecurity Specialist with a strong academic background in cybersecurity and digital forensics
- Hands-on experience in **threat detection**, **risk assessment**, and **blockchain security**
- Proficient in **Microsoft Azure**, **AI-based anomaly detection**, and **smart contract development**
- Knowledgeable in tools such as **Ethereum**, **IPFS**, **React.js**, and **Web3.js**
- Demonstrated leadership as a team lead in academic cybersecurity projects
- Strong communication skills with experience in technical event hosting and mentorship
- Passionate about **cybersecurity research**, secure system design, and emerging technologies

CERTIFICATIONS AND TECHNICAL TRAINING

- **Generative AI and Deep Learning Boot Camp (05 May, 2025)**
Gained practical skills in generative AI, neural networks, and deep learning frameworks including model training, tuning, and deployment.
- **Introduction to Microsoft Azure Cloud Services (In Progress)**
Learning core Azure services such as virtual machines, cloud storage, networking, identity management, and cloud-based application development.
- **Manage Security Risks**
Trained in risk assessment, mitigation strategies, threat identification, incident response, and securing enterprise IT environments.
- **Foundations of Cybersecurity (17 Aug, 2024)**
Covered cybersecurity fundamentals including network security, cryptography, system hardening, and basic threat detection and prevention techniques.
- **AI for Beginner**
Introduced to AI principles, machine learning basics, algorithm concepts, and real-world AI applications.

EXPERIENCE

Cyber Security Intern | CodeAlpha

May 10 2025 - August 10 2025 | [Remote](#)

- Assisted in threat detection, risk assessment, and vulnerability analysis.
- Gained hands-on experience with cybersecurity tools and frameworks.
- Supported incident response and security documentation tasks.

PROJECTS

- **Final Year Project: Enhancing Healthcare Security with Blockchain and AI-based Anomaly Detection Website** [Url: https://healerplus.live/](https://healerplus.live/) Designed and developed a secure hospital management system using **Ethereum**, **IPFS**, **React.js**, and **Web3.js**. Implemented **smart contracts** for role-based access control and integrated **AI-based anomaly detection** for early diagnosis. Prioritized data privacy and real-time access in a responsive web interface.
- **Smart Climate Tracker:** Built an **Arduino-based** system to monitor temperature and humidity. Displayed real-time

readings on an **LCD screen** for accurate environmental tracking.

- **LabVault:** Designed a database system using **XAMPP**, optimizing data storage for lab equipment, experiments, and results. Improved data organization and retrieval.

PUBLICATIONS

1.Enhancing Healthcare Security with Blockchain and AI-Based Anomaly Detection

Authors: Eman Fatima ,Rao Sharif Mansoob, Muhammad Shoaib, Iftikhar Rasheed, Umar Fayyaz

Accepted in ICACNC 2025

Proposed a secure hospital data system using **Ethereum blockchain**, **IPFS**, and **AI-based anomaly detection** to prevent brute force attacks. Implemented **smart contracts** for secure logins and decentralized data access. Used **Random Forest** for detecting suspicious login patterns, achieving high accuracy in performance metrics.

2.Blockchain and AI in Healthcare Security: A Comprehensive Review of Anomaly Detection Approaches

Authors: Eman Fatima , Rao Sharif Mansoob, Muhammad Shoaib, Iftikhar Rasheed, Umar Fayyaz

Submitted in JAIR (Under Review)

A comprehensive review exploring the integration of blockchain and AI-driven anomaly detection in healthcare. Highlights challenges in security, privacy, and trust in blockchain systems and discusses real-world applications such as Estonia's eHealth infrastructure.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python
- **Cybersecurity Tools:** Wireshark, OWASP ZAP, Nmap, Threat Modeling Tool
- **Digital Forensics Tools:** Autopsy, FTK Imager, RAM Capturer, X-ways, WinHex, Belkasoft
- **Other Tools & Libraries:** MATLAB, eNSP, Flask, OpenCV, Requests, hashlib

NON TECHNICAL SKILLS

- Communication and Interpersonal Skills
- Leadership and Team Management
- Effective Presentation and Public Speaking
- Active Listening and Problem Solving
- Adaptability and Time Management

POSITIONS OF RESPONSIBILITY

Team Leader – University Lab Group (Image and Video Processing)

Led a 5-member team on cybersecurity-related projects, coordinating task delegation, progress tracking, and technical implementation.

HOSTING EXPERIENCE

- **Event Host – Departmental Farewell Functions**
- Successfully hosted formal university farewell events, demonstrating strong **communication**, **public speaking**, and **event coordination** skills. Managed logistics and collaborated with teams to ensure smooth execution.
- **Technical Host – IEEE Cybersecurity Events**
- Hosted technical sessions on **cybersecurity** and **data breaches**. Moderated expert panels, facilitated **Q&A discussions**, and presented technical content clearly to diverse audiences.

LANGUAGES

1. ENGLISH PROFICIENT

2. URDU PROFICIENT