

EMAN FATIMA

+92 3038775831

emanfatima60860@gmail.com

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

EDUCATION

The Islamia University of Bahawalpur

BS in Cybersecurity and Digital Forensics, CGPA: 3.47

- Relevant Courses: Network Security, Cyber Forensic Analysis, Cryptography, AI

Bahawalpur, Pakistan

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/> 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