AYESHA ERUM

Cybersecurity Student | Threat Intelligence & AI Security

Doha, Qatar | +974 50172169 | ayeshaerum2006@gmail.com | LinkedIn | GitHub

Cybersecurity student at UDST (GPA: 3.98) with experience in threat intelligence, AI security research, web application security, and secure application development. Contributing to LLM vulnerability research at QCRI and threat intelligence operations within CYBER+MDR environments at Digibit. Skilled in SIEM analysis, penetration testing methodologies, and security automation workflows.

TECHNICAL SKILLS

Core Security Competencies: Threat Intelligence, Threat Detection, Vulnerability Assessment, SIEM Analysis, Telemetry Correlation, Security Monitoring, Incident Investigation, Penetration Testing, Web Security
Security Tools: Wireshark, Burp Suite, Nmap, Metasploit, Splunk SIEM
Programming: Python, JavaScript, Node.js, PHP, Bash, MySQL
Networking & Infrastructure: TCP/IP, DNS, HTTP/HTTPS, VPNs, NGFW Concepts, IDPS, Network Architecture
Cloud & Automation: n8n, Railway, REST APIs, GitHub, Workflow Automation
Cryptography & Security Concepts: AES-256, RSA-2048, SHA-256, PKI, Secure Session Management

EDUCATION

B.Sc. Data and Cyber Security | GPA: **3.98** | Expected: 2027
University of Doha for Science and Technology (UDST)
Dean's List (2025) | Academic Excellence Award (2024)
Coursework: Red Teaming & Penetration Testing • Digital Forensics & Incident Investigation • Advanced Network Security • Secure Application Development

PROFESSIONAL EXPERIENCE

Cybersecurity Research Intern | Qatar Computing Research Institute (QCRI) | May 2026 - Ongoing
Project: Understanding LLM-Generated Vulnerability Reports in Open-Source Ecosystems

- Researching security implications of LLM-generated vulnerability reports across open-source ecosystems and AI-assisted security workflows
- Analyzing vulnerability reporting patterns, AI-generated security findings, and scalability challenges in modern vulnerability management pipelines
- Collaborating with cybersecurity researchers on large-scale analysis of AI-generated vulnerability reporting workflows across open-source ecosystems

Network Threat Intelligence Analyst Intern | Digibit - Beyond Technology | May 2026 - Ongoing

- Investigating threat indicators, attack patterns and emerging cyber risks within CYBER+MDR operational environments
- Correlating security telemetry and threat intelligence feeds to support detection workflows and operational threat analysis using SIEM-driven processes
- Contributing to operational threat analysis, intelligence reporting, and managed detection and response (MDR) workflows within enterprise security environments

Applied AI & NLP Researcher | UDST | January 2026 – Present

- Developing LLM-powered referral categorization system for healthcare triage and workflow automation
- Performing data preprocessing, prompt engineering, model evaluation, and NLP pipeline optimization
- Conducting literature reviews and benchmarking applied AI/NLP approaches for real-world deployment
- Collaborating on machine learning workflow design and deployment-focused optimization strategies

Operations & Marketing Lead Intern | Be My Sense | Jul 2025 – April 2026

- Led a 16-member cross-functional team driving 140% LinkedIn growth through analytics-driven outreach
- Coordinated digital operations and external representation during Web Summit Qatar 2026

Peer Tutor – Computer Programming | UDST | Jan 2024 – April 2026

- Delivered technical tutoring in Python, Java, cybersecurity, and AI concepts, supporting 20+ students across programming and technical coursework

LEADERSHIP & ACTIVITIES

College of Computing and IT Representative — Student Council, UDST

- Represent student interests and participate in student engagement and university initiatives
- Supported university outreach and operational coordination during major campus events

CERTIFICATIONS & TRAINING

Certifications: Palo Alto Networks (Network Security Fundamentals, Cybersecurity Foundation) • Cisco NetAcad (Introduction to Cybersecurity, Introduction to IoT and Digital Transformation) • Splunk Core Certified User (2026)

Additional Training: NetWitness Incident Forensics Workshop • Tata Cybersecurity Analyst Simulation • Mastercard Cybersecurity Virtual Experience • Web Development Vocational Training

CYBERSECURITY PROJECTS

Secure Email Application with Multi-Layer Encryption | GitHub

- Engineered a secure email platform using Python and Node.js implementing AES-256 encryption, RSA-2048 key exchange, SHA-256 hashing, and PKI-based authentication for encrypted communications and secure file transfer

Real-Time XSS Vulnerability Scanner (Browser Extension)

- Developed a browser extension for real-time XSS vulnerability detection and client-side attack surface analysis
- Implemented client-side input inspection and vulnerability severity classification workflows

Cloud-Based Security Automation Pipeline

- Built a cloud-based multi-agent automation pipeline integrating Reddit API, Google Gemini AI, Gmail, Google Drive, and Pexels APIs
- Automated data processing, execution logging, alerting workflows, and cloud task orchestration using n8n and Railway

Secure E-Commerce Web Application

- Developed a secure full-stack e-commerce application using PHP and MySQL implementing SQL injection prevention, session security controls, and input validation mechanisms

ACHIEVEMENTS & AWARDS

- **2nd Place — LifeLines Hackathon 2026**
- **3rd Place — Capture The Flag Competition**
- **3rd Place — Mobile App Development Competition 2025**
- **Dean's List — 2025**
- **Academic Excellence Award — 2024**
- **1st Place — Mathematics Competition 2024**

VOLUNTEER EXPERIENCE

- Web Summit Qatar 2025 – Event Volunteer (Registration & Logistics)
- University Open Day 2026 – College of IT Student Representative