Muhammad Zain

Cybersecurity Enthusiast

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SUMMARY

Cybersecurity enthusiast with a Software Engineering background, skilled in **Python, C, Bash, C#, Java, and SQL**. Proficient in **Linux, cloud platforms, and security tools**. Experienced in intrusion detection and secure networking, with strong interest in **cyber risk supervision**, **digital fraud detection**, and **incident response**. Dedicated to applying technical expertise to protect digital infrastructure and contribute to national cybersecurity resilience.

EDUCATION

Bachelors of Software Engineering

OCT 2021 - JULY 2025

Bahria University

CGPA: 3.75

Granted Provisional Merit Scholarship for Spring 2025 Semester.

EXPERIENCE

DFIR and GRC Intern

JUNE 2025 - JULY 2025

Trillium Information Security Systems

- Investigated security incidents and attack scenarios using **Windows Event Viewer**, **Hayabusa**, **Zircolite**, **Chainsaw**, IDS tools, and vulnerability scanners like **Qualys** and **Kaspersky**.
- Presented **technical risk assessments**, **CIS benchmark reviews**, and collaborated in **change management**, **Business Continuity Plans**, **Disaster Recovery Plans**, and **Business Impact Analysis** activities.
- Completed full **CompTIA Network+ and Security+** training, applying core principles in network defense, threat management, GRC operations, and learned about **ISO 27000 family** standards.

Full Stack Developer Intern

OCT 2023 - NOV 2023

NexinIT

 Developed web services and applications using ASP.NET MVC, Entity Framework, and SQL Server; utilized HTML, CSS, JavaScript, jQuery, AJAX, Bootstrap, and REST APIs; managed version control with GitHub and deployed on MS Azure.

ACADEMIC PROJECTS

Intelligent Cyber Attacks Detection System – Final Year Project

OCTOBER 2024 - JUNE 2025 - github.com/mzainxo/ICADS

- Integrated **ML-based anomaly detection** with **Suricata IDS** for detection of sophisticated **DDoS** attacks.
- Achieved **99% accuracy** on offline model testing and **78–94% accuracy** in live network environments for real-time DDoS attack identification and mitigation.
- Resolved **static signature limitations** by embedding adaptive learning, reducing dependence on manual rule updates.

Realtime Phishing Emails Detection System – Web Application

NOV 2024 - DEC 2024 - github.com/mzainxo/Phishing-email-detection-using-ML-and-NLP

- Built a **web-based phishing detector** using TF-IDF and Random Forest Classifier with **95% accuracy**.
- Introduced contextual, feature-driven ML detection to outperform traditional spam filters.

Enterprise Network Design of Dubai Airports - Packet Tracer

DECEMBER 2023 - JANUARY 2024 - github.com/mzainxo/Network-Design-for-Airport

• Designed a secure, scalable network with VLANs, multilayer switches, routers, and EIGRP for efficient inter-VLAN routing; implemented DHCP, static IPs for critical devices, and secure guest Wi-Fi with controlled segmentation.

Vehicle Trading System – Windows Forms App

MAY 2023 - JUNE 2023 - github.com/mzainxo/VehicleTradingSvstem

 Developed a C# Windows Forms app with SQL Server backend, securing user credentials via password hashing and encryption, preventing SQL injection with parameterized queries, and implementing role-based access controls.

SKILLS & TOOLS

Networking & Security: Suricata, Windows Event Viewer, Kaspersky, Zircolite, Chainsaw, Nmap, Wireshark, Burp

Suite, Tcpdump, Tcpreplay, Cisco Packet Tracer, Synk, Qualys, Metasploit.

Programming Language: C#, Java, Python, C, Bash, Assembly, SQL, HTML, CSS, JavaScript, and XML.

Tools & Platforms: VMware, Azure, AWS, Postman, GitHub, MS office.

Operating Systems: Linux, Windows

Standards: ISO 27001, ISO 27002, ISO 27005

CERTIFICATIONS

- IBM Application Security for Developers and DevOps Professionals Coursera
- Certified in Cybersecurity (CC) ISC2
- Google Cybersecurity Professional Certificate Coursera
- Japanese 5S Methodology Training Toyota x UNAP

VOLUNTEERING

Marketing and Creative Lead (Farewell) – *Software Engineering Dept., Bahria University* MARCH 2024 – MAY 2024

 $\begin{tabular}{ll} \textbf{Volunteer at Heatwave Relief Camps} - \textit{FGRF} \\ \end{tabular}$

MAY 2022