Saad Ali

BS Cyber Security

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Education

BS Cyber Security Sep 2023 – Present
Air University, Islamabad
Relevant Courses: Data Structures, Operating Systems, Cyber Security, Software Engineering, Malware Analysis

Intermediate in Pre-Engineering 2021 – 2023
Scholars Science College, Wah Cantt

Matriculation in Science 2020 – 2021
F.G Public School No.1, Wah Cantt

Programming Languages

- C, C++, Python, JavaScript, Bash, Assembly Language,
- HTML, CSS, Tailwind, ReactJS
- SQL, NoSQL (MongoDB), Firebase

Technologies & Tools

- Wazuh, Splunk, Wireshark, Burp Suite, VirtualBox
- Git, GitHub, Linux (Ubuntu), Docker (Basics)
- Figma, Canva, Novoresume, VS Code

Projects

Python-Based Botnet (Offensive Security Project) June 2024
Designed and implemented a functional command-and-control (C2) botnet in Python for educational and research purposes. Demonstrated core features including remote command execution, persistence, file transfer, and multi-client handling using sockets and threading. Highlighted ethical and legal implications of botnet operations in controlled environments. Presented findings as part of a red team simulation project.

Collaborative Whiteboard (with Drawing and Undo/Redo) December 2024
A multi-user drawing tool built using C and WebSockets. Includes features like real-time collaboration, undo/redo, and multiple colors.

Remote Control Management System Jan 2025
Built with Python and Firebase; allows users to remotely control devices through a GUI interface.

CTF Challenge Developer – TCT CTF 2024 Sep 2024
Designed OSINT, Stegnography , Cryptography challenges for the official Capture The Flag competition.

Valhensing RAAS Malware Analysis (Research Project) May 2025
Performed a comprehensive analysis of Valhensing RAAS (Ransomware-as-a-Service), focusing on its infection vectors, payload behavior, encryption routines, persistence mechanisms, and C2 infrastructure. Reverse engineered obfuscated code to identify its operational flow and extract Indicators of Compromise (IOCs). Delivered findings through a technical report and presentation, highlighting its threat landscape relevance.