Basim Ahmad

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Education

National University of Computer and Emerging Sciences (FAST NUCES)   2021 – 2025
BS Cyber Security   *Islamabad, Pakistan*

Experience

Arwen Tech (Pvt) Ltd.   August 2025 – Present
Associate Network Engineer — Enterprise Networking, WAN Optimization, Firewall Configuration   *Islamabad, Pakistan*
- Troubleshot and resolved network issues across enterprise infrastructures to maintain optimal connectivity and performance.
- Supported WAN optimization initiatives, including inline path configuration at data center environments.
- Configured and tested Cisco VoIP environments, audio-video endpoint functionality in pre-deployment stages using CUCM and CMS.
- Configured FortiGate and Juniper SRX firewalls for internal networks and client-specific implementations.

KDD Lab   June 2024 – Aug 2024
Intern — Malware Analysis, Digital Forensics, Cryptography, Research on Quantum Cryptography   *Islamabad, Pakistan*
- Conducted Static and Dynamic Malware Analysis on various malwares using IDA, Ghidra and other tools.
- Implemented AES-256, RSA, and Trivium Stream Cipher.
- Conducted research on BB84, E91, and QSS.

Protect Lab   June 2023 – Aug 2023
Intern — Penetration Tester, Red Teaming, ISO 27001, GDPR   *Islamabad, Pakistan*
- Learnt and developed proficiency in the usage of the latest software, tools, techniques and methodologies used for penetration testing and red teaming operations.
- Assessed company security policies, developed risk mitigation strategies, and ensured compliance with ISO 27001 and GDPR standards.

Certifications

Ethical Junior Pentester (eJPT) - Certification ID: 125126585   *Issued by eLearnSecurity, 04 December 2024*
• Gained expertise in assessment approach, conducted host and network auditing, performed pen-testing, and analyzed web app security.

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional - Certification   *Issued by Oracle, October 29, 2025*
• Validated expertise in designing, training, and deploying generative AI solutions using OCI services.

Oracle Cloud Infrastructure 2025 Certified Multicloud Architect Professional - Certification   *Issued by Oracle, October 24, 2025*
• Demonstrated proficiency in designing and implementing complex multicloud solutions integrating OCI with other cloud providers.

Oracle Cloud Infrastructure 2025 Certified Architect Associate - Certification   *Issued by Oracle, October 23, 2025*
• Acquired foundational knowledge of OCI core services and demonstrated the ability to design secure and scalable cloud infrastructure.

Digital Forensics Essentials (DFE) - Certification ID: 167699   *Issued by EC-Council, 02 January 2023*
• Gained hands-on experience in digital forensics tools and techniques for analyzing and investigating cyber incidents.

Network Security Associate 1,2,3 (NSE) - Certification   *Issued by Fortinet, 07 August 2022*
• Developed a solid grasp of networking fundamentals, cybersecurity principles, and Fortinet's core security solutions

Projects

Q-Sec: Quantum-Secure Messaging System | Reactjs, Nodejs, Socket.io
• Developed Q-Sec integrating Quantum Key Distribution (BB84) with AES-256 encryption for end-to-end secure communication.

• Implemented real-time messaging, user authentication, and modular RESTful APIs using React, Node.js, MongoDB, and Socket.io.

MAC Address Spoofer, Network Scanner, Packet Crafting & Manipulation Tool | Scapy, Python
• Developed a Python-based MAC address spoofer and network scanner to test and analyze network security.

• Created a port scanner for scanning target IPs and identifying open ports and active hosts in a network using network probing techniques.

• Developed a packet crafting and manipulation tool using Scapy to analyze and modify network traffic.

Blackhole Attack Detection in RPL-based IoT Networks | Python
• Developed a ML pipeline using Random Forest and Neural Network models to detect blackhole attacks in simulated RPL-based IoT traffic.

• Engineered 18+ features from 5.9M+ packets using time-windowing and applied SMOTE for balanced blackhole attack classification.

Systems Documentation | Governance, Risk and Compliance
• Case study: Developed comprehensive documentation which includes Threat Analysis, Quantitative Risk Assessment, Enterprise Information Security Policy, Contingency Plan (IR, DRP, BIA, BCP), Security Architecture, Physical Security Plan, and Security Team Hierarchy

DePay | Solidity, Ethereum with Ganache, OpenZeppelin, Reactjs, Nodejs
• Designed and implemented a decentralized e-commerce platform using Ethereum smart contracts and ERC-20 tokens.

• Developed a full-stack application featuring product listings, cart management, and blockchain-based payment gateway enabling secure, transparent, and intermediary-free payments.

Key Logger | C++, Terminal Scripts
• Programmed a key logger using C++ and terminal scripts to capture keystrokes and sending back to email for security testing.

Skills

Programming Languages: C++, C#, Python, R, HTML, CSS, JavaScript

Cybersecurity Tools: Kali Linux, Ubuntu, Metasploit, Hydra, theHarvester, Nikto, SQLMap, Hashcat, YARA, Wireshark, Nmap, Burp Suite, Autopsy, FTK Imager, IDA, Maltego

Software: Microsoft Office (Word, Excel, PowerPoint, PowerBI), Stata

Database Management: SQL

Forensics, Security and Compliance: Digital Forensics, Reverse Engineering, Incident Response, Risk Assessment and Management

Research: Research & Thesis Writing