Mst Farhana Haque Chowdhury

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Objective

A highly motivated and analytical graduate with a Distinction in MSc Cloud and Network Computing from Staffordshire University. Seeking to apply advanced knowledge in network security, automation, and Python programming to the Technology Cyber & Security Summer Internship Programme. Eager to contribute to real-world security challenges, develop practical skills, and build a career in cyber security with a global leader like Barclays.

Education

Staffordshire University, UK | MSc in Cloud and Network Computing (Distinction) | 2024 - 2025

- Key Modules: Operating System and Network Security, Cloud Computing, Network Automation and Network Programming, Virtualisation and Infrastructure, Routing and Switching.

Leading University, Bangladesh | BSc in Computer Science & Engineering | Graduated Aug 2019

- Key Coursework: Data Structures and Algorithms, Object-Oriented Programming (Java, C++), Web Development, Database Management Systems.

Key Technical Skills

- Cyber Security: Network Security, Firewall Policy Management & Automation, Anomaly Detection, Security Principles.

- Programming & Scripting: Python (Advanced), Java, C/C++, SQL, HTML/CSS, JavaScript.

- Cloud & Virtualisation: AWS (concepts), Docker, VMware Workstation, GNS3, QEMU.

- Networking: TCP/IP Suite, OSPF, VLANs, Subnetting, Network Security Groups (NSGs), Routing & Switching.

- Tools & Operating Systems: Wireshark, Nmap, Git, Linux (Ubuntu, Debian), Windows Server.

Key Technical Projects

MSc Dissertation: Automated Firewall Anomaly Resolution Framework

- Designed and developed a robust software tool in Python to automatically detect and resolve security policy misconfigurations across multi-vendor firewalls (Cisco, FortiGate, Palo Alto).

- Engineered a hybrid analysis engine, achieving a 94% automated resolution success rate and a scalable throughput of ~1,000 rules/sec in a realistic enterprise network simulated with GNS3.

- Demonstrated strong capabilities in network automation, security policy analysis, and practical problem-solving.

BSc Project: Full-Stack E-Commerce Web Application

- Built a complete e-commerce platform featuring secure user authentication, product catalogue management, a dynamic shopping cart, and an order processing system with an SQL backend.

- Demonstrated proficiency in front-end (HTML, CSS, JavaScript) and back-end development.

BSc Project: Android Mobile Expense Tracker

- Developed a native Android application using Java to allow users to track and manage personal expenses, featuring data visualization through dynamic charts and persistent local storage.

Professional Experience

Lecturer in ICT | Sylhet United Model College, Bangladesh | Sep 2019 – Aug 2024

- Communicated complex technical concepts, including C programming and networking fundamentals, to diverse audiences.

- Managed technical resources and lab environments to facilitate hands-on learning and practical problem-solving.

- Developed structured curricula and materials, demonstrating strong organizational and planning skills.

- Mentored and guided students on their technical projects and career development.

Languages

- Fluent: English, Bengali, Hindi, Urdu.

- Beginner: Italian, Korean.

References

Available upon request.