

Madeeha Balouch

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SKILLS

Python (Pandas, Numpy, Streamlit, Scikit-learn)

Java, C++

Web Development (Joomla, WordPress, HTML5, CSS3, JavaScript, Bootstrap, Apache NetBeans)

Database (MySQL)

MS Office Applications (Excel, Word, PowerPoint)

Network Design and Implementation (Cisco Packet Tracer, Riverbed)

Network Security Solutions (Cisco Packet Tracer)

Penetration Testing (Linux CLI, Metasploit framework, Nmap, Hping3, Nessus, Wireshark, Privilege Escalation)

AWS cloud (S3, IAM, EC2, Lambda (Python, Boto3), Lex, SNS, CloudWatch)

PROFESSIONAL EXPERIENCE

Network Engineer Intern | Huawei | June 2022- September 2022

- Designed and Implemented FTTH networks using GPON technology.
- Researched and Recommended network and data communications hardware and software.
- Performed day-to-day monitoring, management, administration, and support of alarms systems with the GPON team.
- Collaborated with network administrators and server engineers to ensure service quality.
- Created scripts for 3G, LTE, and 5G with the wireless team.
- Suggested upgrades and expansions for the sites, with the design team.
- Collaborated with the Microwave team and gained experience in configuring Microwave links between two sites.
- Additionally, performed several site visits for better understanding of the hardware and its operations.

Front-End Developer | Classat (start-up) | November 2021- February 2022

- Created multiple web pages (Sign-up, Login, Landing page) according to given design specifications.
- Utilized HTML5, CSS3, and Bootstrap.

PROJECTS

Website Portfolio Development

- Personal project showcasing web development and editing skills.
- Hosted using GitHub Pages.
- Used HTML5, CSS3, Sass, JavaScript, font awesome icons.

Graduation Project: AUBOT (Chatbot)

- Created a Chatbot using AWS services (Lex, Lambda, S3, IAM).
- Developed a demo website (HTML5, CSS3, JavaScript, Bootstrap).
- Integrated the chatbot with a third-party platform (Kommunicate).
- Automated remote data updates in AWS.
- Conducted user testing for design and functionality improvements.

Penetration Testing Project

- Configured several VMs to be in the same network.
- Gathered network information and scanned for vulnerabilities using Kali.
- Exploited discovered vulnerabilities.
- Documented the findings and suggested recommendations for the discovered vulnerabilities.

Wireless Network Design for Enterprise Building

- Utilized Cisco Packet Tracer to design a wireless network with security measures.
- Configured servers, WLANs, APs, and implemented AAA and WPA2 security schemes.

Hospital Management System

- Developed a JSP-based hospital management system.
- Implemented features such as patient management, appointment scheduling, and medical record keeping.
- Tested for functionality and usability.

Multimedia Animation Video

- Produced a multimedia animation video using Adobe Premiere Pro, Audacity, and Adobe Photoshop.
- Incorporated animation, voice reduction, and custom graphics.

Project Management Plan to Propose an E-commerce Website

- Performed Cost Estimation, Budget Management, Quality Assurance, Communication Management, and Resource Management for the proposed plan.

EDUCATION CERTIFICATES

- **Bachelor Of Science in Information Technology| Networking and Security - Ajman University (Honors, CGPA: 3.88).**
 - **Cluster Analysis & Patten Discovery in Data Mining, Coursera, 2023.**
 - **Cloud and Wireless Security, Coursera, 2023.**
 - **Cyberthon Competition at GISEC Global, 2023.**
 - Participated as a member of Red Team
 - **16th IEEE UAE Student Day Competition – Certification of Recognition, HCT, 2022.**
 - Third place winner in Cyber Security Challenge
 - **AWS Academy certifications in Machine Learning Foundations, Cloud Foundations, Data Center Technician, AWS, 2022.**
 - **Cyber Security Essentials, Cisco, 2022.**
 - **Internet of Things – HCIA, Huawei, 2022.**