

Muhammad Faaz Qadeer

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OBJECTIVE

With deep interest in network management and cybersecurity, I have hands-on experience working with hardware and managing networks at various levels. My focus is now on optimizing network security, utilizing my technical expertise to enhance and secure complex systems. I am passionate about working with devices and computer systems to drive success, while continuously expanding my knowledge in cybersecurity and network infrastructure.

EXPERIENCE

1. Nust Chip Design NCDC

August 2024 – September 2024

Digital Verification Intern

- Hands on Experience on Assembly, C++, System Verilog on Nexy 4 FPGA
- Design Modules like UART, Risc V, Simulators etc

2. FFC Head Office Sona Tower

June 2024 – July 2024

Network Operation Center (NOC) Intern

- Hands on Experience on Cisco Packet tracer
- Overview of Network Architecture

3. Gamican Pvt.Ltd

June 2023 – May 2024

Hardware IoT Development

- Embedded System with IoT Web Development
- Smart Video Door bell

4. SYS SOLUTIONS

June 2022 – Sep 2022

Network Support Internship

- Assisted in configuring and troubleshooting computer networks
- Monitored and optimized network performance
- Implemented network security measures
- Support end-users with network connectivity issues
- Provide Network infrastructure

Hardware Repair Internship

- Diagnosed and repaired computer hardware issues
- Tested and replaced faulty components
- Assembled and configured computer systems
- Troubleshooting of Computer hardware

EDUCATION

2024 - Present	Master of Science, National University of Science and Technology, Islamabad Pakistan Major: Information Security CGPA: -.-/4.00
2020 - 2024	Bachelor of Science, University of Engineering and Technology, Taxila, Pakistan Major: Computer Engineering CGPA: 3.84/4.00
2018 – 2020	Higher Secondary School Certificate, Knowledge Inn Preparatory School KIPS College, Pakistan Major: Pre-Engineering Score: 78%
2016 – 2018	Secondary School Certificate, Block A Pak PWD Society, RWP, Punjab, Pakistan Major: General/Bio Sciences Score: 80%

SKILLS

Programming Skills:

- **Web Development:** HTML, CSS, JavaScript, PHP
- **Programming Languages:** C++, Python
- **Algorithms and Data Structures:** Proficient in data structures, algorithms, and database systems
- **Cryptology:** Implementation of ElGamal, Hill cipher, Playfair, and auto key cipher in Python

Hardware Skills:

- **PCB Design:** Altium
- **Embedded Systems:** Experience with 8086 Microprocessor, Xilinx Vivado Nexys4, and machine learning algorithms

- **Hardware Design:** Expertise in hardware design and solutions experience in design of uart, spi protocol, processor
- **Optical Communication:** OptiSystem
- **Computer Systems:** Comprehensive knowledge of computer architecture, operating systems, and computer networks

Server Deployment Skills:

- **File Sharing:** Setup and management of Samba server on local area networks
- **VoIP:** Implementation and maintenance of Asterisk Server on Linux
- **Network Control:** Configuration and management of Squid Server on Linux
- **Web Hosting:** Deployment and administration of web hosting servers on Linux

Other Skills:

- **Problem Solving:** Strong problem-solving and critical-thinking abilities
- **Project Management:** Proficient with Bitrix software (CEPM)

INTERPERSONAL SKILLS

- **Adaptability:** Rapidly learn and integrate new technologies and tools
- **Time Management:** Prioritize tasks effectively and meet deadlines consistently
- **Creative Thinking:** Propose innovative solutions to technical challenges
- **Leadership:** Demonstrate initiative and guide team members towards common goals
- **Teamwork:** Collaborate effectively on projects and work well in diverse groups
- **Cross-Cultural Communication:** Communicate and work effectively with diverse teams
- **Active Listening:** Understand and address the needs and concerns of others attentively

Projects

School Management System

- Developed using C++
- Manages student records, attendance, grades, and administrative tasks

Morphing of Human Voices

- Developed using MATLAB
- Transforms and blends different human voices

Hotel Management System

- Implemented using Database Management System (DBMS)
- Handles reservations, check-ins, check-outs, and billing
- GUI interface developed using HTML/CSS
- Backend developed using PHP, SQL

Colorizing Old Black & White Images

- Utilizes machine learning algorithms
- GUI front end developed using Flask library
- Developed in Python

Face Detection

- Implements classical and modern algorithms
- Developed using Keras for image processing

Internet Firewall System

- Developed in an operating system environment
- Manages network security and traffic filtering

Robotic Blind Stick Prototype

- Assistive device for visually impaired
- Includes Ultrasonic sensors and Arduino microcontroller

Real-Time Face Recognition System

- Built with ESP32 microcontroller
- Performs real-time facial recognition using facenet model
- Processes frames on the server received from the microcontroller

Smart Video Doorbell (Final Year Project - MVP)

- Integrates live video streaming
- Provides real-time alerts and remote access
- Features a user-friendly app developed in Flutter
- Resembles a traditional wireless doorbell

HOBBIES

- **Coding and Hardware Projects:** Engaging in personal coding projects and exploring hardware innovations.
- **Networking and Tech Meetups:** Participating in networking events and tech meetups to stay updated with industry trends.
- **Reading:** Enjoying literature across various genres, with a focus on technology and innovation.
- **Traveling:** Exploring new places and cultures, gaining fresh perspectives and experiences.

Achievements

- **Hafiz-e-Quran:** Memorized the Quran.
- **Academic Excellence:** Maintained outstanding academic performance throughout my educational career.
- **Prime Minister's Youth Laptop Scheme 2023:** Honored with recognition under this scheme.

Certifications

- **Spoken English:** Completed from NICON Group of Colleges, Rawalpindi.
- **Computer IT:** Completed from NICON Group of Colleges, Rawalpindi

Languages

- English: Fluent
- Urdu: Native
- Punjabi: Native

References

Academia	Dr. Hafiz Muhammad Omer Chughtai <i>Designation:</i> Associate Professor COMSATS University (Wah) <i>Email:</i> omer.chughtai@cuiwah.edu.pk	Dr. Naveed Khan Baloch <i>Designation:</i> Assistant Professor UET, Taxila <i>Email:</i> naveed.khan@uettaxila.edu.pk
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