Shahzaib Daud

⚲ Pakistan ✉ engr.s.daud@gmail.com ☎ +92 315 8963161 in https://www.linkedin.com/in/shahzaib-daud-electrical-engineer/

SUMMARY

I am a recent Computer Systems Engineering graduate, I am eager to apply my knowledge and skills to real-world challenges. My academic background has equipped me with expertise in **Data Communications and Networks**, **Audio Communication** technologies such as **PSTN** and **VoIP**, and **Sync/Asynchronous Programming**. Additionally, I have gained practical experience in **Embedded Systems**, and **IoT** through hands-on projects and coursework. During my internship, I focused on converting **analog data** to **digital**, demonstrating my ability to solve complex problems and adapt to new technologies. I am enthusiastic about contributing to innovative projects and continuing to learn and grow in the field.

EDUCATION

BS-Electrical Engineering specialized in Computer Systems Engineering
National University of Computer and Emerging Sciences, FAST · Islamabad, PK · 2024

EXPERIENCE

Data Archiving and Cloud Database Migration Intern
Pakistan Broadcasting Corporation (PBC), Headquarters   **May 2023 - August 2023, Islamabad, PK**
· Contributed to PBC's modernization by converting legacy spool tapes, ensuring data preservation and accessibility through active participation in AWS cloud-based database migration, **quality assurance**, and **collaborative teamwork**.

PROJECTS

Designed an Internetwork for our Campus (FAST University) - TCP/IP suite model
NUCES, FAST · November 2022 - December 2022
· Designed an interconnected internetwork for **FAST University**, connecting our campus and the Head Office using **Cisco Packet Tracer**.
· Showcased proficiency in network design, **IP**, **routing protocols**, **DHCP**, and centralized services for an efficient and robust network.

GUI Based Chat-Room with Multiple Clients and Server: Network Programming and Operating System Projects
NUCES, FAST · April 2023 - May 2023
· Developed a **Python**-based GUI **Chat Room**, implementing **network programming** techniques and **Tkinter** for the GUI.
· Implemented robust chat security through **SSL/TLS encryption**.
· Deployed and managed the Chat-room data on a **Raspberry Pi 4**, leveraging **Apache 2** for storage.

Installation and Configuration of Asterisk for VoIP Clients with Successful
· Installed and configured **Asterisk PBX software** on **Ubuntu Linux** and explore its features.
· Setup **SIP.conf** and **Extension.conf** files to define **VoIP clients** and establish successful calling between devices iva **Bria Softphones**.

SKILLS

Technical Skills:
· Networking Tools (Wireshark, Cisco Packet Tracer, eNSP, Asterisk Software)
· JavaScript, Basic HTML, and CSS (Web Dev) & Basic Node.js and Express.js (Server Dev)
· Python (ML Algorithms, Socket Programming, IoT)
· C/C++ (OOP, DSA, Embedded programming)
· Linux Distribution (Ubuntu, Debian, CentOS)

Soft Skills:
· Problem-Solving
· Team-Work

INVOLVEMENT

Global Competition
NUST, Islamabad, PK · Huawei ICT Competition Training Program · October 2022 - November 2022
· Received Certificate of Accomplishment from Huawei Islamabad, **ranked top 500 in Huawei ICT Competition Middle East**.

Industry Visit as a participant
Multinet, Pakistan · May 2022 - May 2022
· Visited **Multinet PK**, gaining insights into communication solutions, including **equipment**, **protocols**, and **data center operations**.

CERTIFICATIONS

Twilio Programmable Messaging and Voice Professional Certificate
LinkedIn - Twilio · 2024
· Developed **inbound** and **outbound SMS/MMS** applications.   Certificate Link
· Designed an **Interactive Voice Response (IVR)** system from inception.
· Executed **outgoing SMS/calls** with **Twilio Programmable Message/Voice**.

Solutions Architecture Job Simulation, AWS
Forage - AWS · 2024
· Demonstrated expertise in designing a scalable hosting architecture solution for a client, leveraging **AWS services**.   Certificate Link
· Optimize resource allocation, alleviate data center burdens, and meet scalability needs.

AWS Cloud Solutions Architect Specialization
Coursera - AWS · 2023
· Specialized in AWS Solutions Architect and big data infrastructure.   Certificate Link
· Completed Professional Certificate for AWS Cloud Solutions Architect, ready for certification.