Omer Rastgar

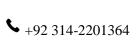
Network Security Engineer



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https://www.linkedin.com/in/omer-rastgar/





https://github.com/OmerRastgar

Building a security and privacy centric community.

Experience



Telecommunication Research fellow

Jun 2022 - Aug 2022 (3 months) **Habib University**

- Designed labs for a 400 level course.
- Worked on SDR (Hack rf and RTL) and GNU radio
- Employed Bash and python scripts to automate Linux processes



Technician 1

Air Audit (Pvt) Ltd Jun 2019 - Aug 2019 (3 months)

- Worked with Ultrasonic detector to identify leaks in pneumatic System.
- My client base for services includes prominent companies such as Amreli Steels, FAP Marine, Feroze Textile and 3M. Understanding and working with large industrial systems.
- IT troubleshooting and support.

Projects

- Vulnerability testing in LTE network (FYP)
 - ❖ Using NS3 network simulator for LTE dev.
 - Simulating cyber-attacks (DOS, MITM).
 - Creating an LTE IDS / IPS.
- Implementing AES GCM on FPGA for IOT
 - Improving efficiency by Pipelining.
- Gamified Assessment for teaching students
 - ❖ Teaching Side channel attacks to engineers.
- VM home lab
 - Using GNS3, VMware, Docker.
 - * AWS, Digital Ocean and Oracle VM.
- OpenVPN server & pfSense & OpenSSL
 - ***** Exploring different security tools.
 - ❖ Working on AES and ECDH.
- Breaking RSA using Power analysis
 - ❖ Implement an FIR filter on FPGA to detect peaks.
- Integrating NIST and LEAN Framework
 - Project for Operational Management course.

Education



Mabib University

Bachelor of Science - BS, Electrical Engineering May 2019 - May 2023



St. Patrick's High School, Karachi

A-levels, Science May 2018 - May 2019

Certifications



<u>Cisco Certified Network Associate</u> (In progress)



Control system design



Google analytics for beginners Third party risk management

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Implementing the Nist Risk Management Framework



Wireshark: Malware and Forensics



in Ethical Hacking: The complete Malware Analysis

Skills

Python	Cisco Products	
C++	Virtualization / Docker container	
JavaScript	Overlay networks / VPN	
Verilog	Cloud computing / Rest API	
Bash	IOT	
Linux (Kali, Ubuntu, Tails)	Software define networks	
TCP/IP/ BGP	Technical support	
Microsoft office / VBA	Network Monitoring	

Tools: Wireshark, Nmap, Shodan, BEEF, Burp Suit, Ghidra, PE studio, VMware, Putty, GNU products, Apache, Ignition, Node Red, NS-3, GNS3, Scikit-learn, Cloudflare, Matlab, Xilinx Vivado, T-pot, Solid edge, Apache, SIEM SNORT.