

# Ali Qureshi

---

**Cell:** +92 334 3450243 | **Email:** aliqureshi2227@gmail.com | **LinkedIn:** linkedin.com/in/ali-qureshi2227

## Objective

To offer my best capabilities and efforts to your reputable organization, get hands-on experience and develop skill set in information, cyber and network security with passion and dedication.

## Education

### **BACHELORS OF SCIENCE - COMPUTER SCIENCE (BSCS) | 2013 - JULY 2017 (EXPECTED) | FAST - NUCES, KARACHI, PAKISTAN.**

- **Related Courses:** Network Security, IS Audit and Control, Network Programming, Computer Networks, Introduction to Cloud Computing, Data Sciences, Business Communication and Professional Ethics.

### **INTERMEDIATE - HSSC | 2010 - 2012 | COMMECS COLLEGE, KARACHI, PAKISTAN.**

- **Major:** Pre - Engineering.

### **MATRICULATION - SSC | 2007 - 2010 | BAQAI CADET COLLEGE, KARACHI, PAKISTAN.**

- **Major:** Science Group.

## Experience

### **RESEARCH TRAINEE | NVIDIA SYSTEMS LAB, FAST- NUCES | AUG 2016 - PRESENT**

- The research is being performed on aspects of computer networks and its security, packet processing, packet filtration, deep packet inspection and functionalities of firewalls and intrusion detection system (IDS).

### **INTERNEE | NVIDIA SYSTEMS LAB, FAST-NUCES | JUN 2016 - JUL 2016**

- Study was performed on information and cyber security, network protocols, virtualization, software defined network (SDN), network virtual function (NFV) and high performance computing (HPC).

## Certifications

### **EC COUNCIL - CERTIFIED ETHICAL HACKER - CEH V9**

## Skills & Achievements

### **SKILLS**

- **Operating Systems:** Linux, Openflow Mininet and Windows.
- **Programming Languages:** Python (Pandas), Java Netbeans, SQL, C, C++, HTML, PHP, ChucK and CUDA C/C++.
- **Tools:** Basic knowledge of Nmap, Metasploit Framework, Ettercap, Maltego, Scapy, Wireshark, GNS3, Cisco Packet Tracer and Rational Rose and Microsoft Office.
- **Personal:** Adaptive, flexible, confident public speaker with fine presentation skills, social and athletic.

## ACHIEVEMENTS

- Winner of “The Grand Debate” at FAST-NUCES, Karachi, Pakistan.
- Awarded as Best Public Speaker, Commecs College, Karachi, Pakistan.
- Was selected in B.I.E.K (Board of Intermediate Education Karachi) volleyball team.
- 1<sup>st</sup> position in annual declamation competition (2011 & 2012), Commecs College, Karachi, Pakistan.
- Consolation prize in annual quiz competition, Commecs College, Karachi, Pakistan.

## Final Year Project

### XFASTPRO FIREWALL – A GPU-BASED FIREWALL

Research based project wherein the implementation of a firewall has been performed which functions over GPU (Graphics Processing Unit) Tegra TK-1 an embedded 192 core GPU from NVIDIA. For performance enhancement incorporation of several features is done such as streams to avoid collision of CPU and GPU being idle during processing. Memory coalescence for memory optimization and zero copy for efficient data transfer. For performance evaluation the module was tested on GTX-780 and Tesla K-40.

## Other Projects & Roles

- **SDN Firewall | Role: Debugging and Deployment | Programming Language: Python**

This project was aimed to have a good grip on the knowledge of network security. The project was to deploy a firewall in a Software Defined Network (SDN) on a topology. The project was deployed using Mininet which is an SDN emulator using POX controller.

- **Online Student Lodging System | Role: Project Management and Documentation**

This project’s major focus was to apply the concepts of human computer interaction (HCI). It was aimed to facilitate students living in hostels and warden who is managing the hostel can have ease with runtime changes and updates.

- **Hang Man | Role: Programming | Programming Language: C++**

This project was implemented with concepts of object oriented programming - in order to innovate this game into something useful, it was transformed into a GRE/SAT/IELTS preparation game with the difficulty of the game being adjustable, dependent upon the target audience.

- **Music Analyzer | Role: Programming | Programming Language: Chuck**

This project was implemented with the concepts of data structures. The project was aimed to help the target musicians to analyze that at what harmonic his/her composed music lies. An assemblage of nodes were entered and after being sorted in a sequence it was matched with sequences of harmonics, with the goal being that wherever that sequence matched, a harmonic scale was output.

- **Accounts Management System | Role: Programming and Documentation | Programming Language: Java Netbeans**

This project was implemented to have a good grip on the concepts of relational database. It was built for accounts managers to enter their data, save and view it accordingly. Getting accounts based documents (e.g. balance sheets) as output was one of the features of this project.

- **Student Lodging System | Role: Documentation and Content Writing**

This project mainly focused towards the aspects of software engineering. A student lodging system for hostels was developed which had certain features regarding saving student records and updates.