

# Usman Ali

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## OBJECTIVE

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To secure a challenging position, in a capacity where I can contribute to the growth of both the perspective employer and myself, perform in an environment providing opportunities of learning and growth.

## EDUCATION

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PhD Cyber Security (University of Malaya, Malaysia)	2020--2024
MS Computer engineering (NUST, Islamabad Pakistan)	2012--2015
BS Computer Engineering (Ghulam Ishaq Khan Institute, Topi Pakistan)	2007--2011
Higher Secondary School Certification (Degree College Mingora, Swat)	2005--2007
Secondary School Certification (High School Kokarai, Swat)	2003--2005

## PHD THESIS TITLE

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Lightweight Security Schemes for Internet of Things Resource-Constrained Devices

## RESEARCH PUBLICATIONS

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The list of the research papers published in ISI journals are given below:

1. Usman Ali, Mohd Yamani Idna Idris, Jaroslav Frnda, Mohamad Nizam Bin Ayub, Muhammad Asghar Khan, Nauman Khan, T. Rehannara Beegum, and Ahmed Abdulhadi Jasim "Enhanced Lightweight and Secure Certificateless Authentication 184 Scheme (ELWSCAS) for Internet of Things Environment." *Internet of Things* Vol. 24 pp. 100923, 2023, DOI: 10.1016/j.iot.2023.100923
2. Usman Ali, Mohd Yamani Idna Idris, Jaroslav Frnda, Mohamad Nizam Bin Ayub, Roobaea Alroobaea, Fahad Almansour, Nura Modi Shagari, Insaf Ullah, and Ihsan Ali. "Hyper elliptic curve based certificateless signcryption scheme for secure IIoT communications." *CMC-Computers Materials & Continua* 71, no. 2 (2022): 2515- 2532, DOI: 10.32604/cmc.2022.019800.
3. Usman Ali, Mohd Yamani Idna Bin Idris, Mohamad Nizam Bin Ayub, Insaf Ullah, Ihsan Ali, Tarak Nandy, Muktar Yahuza, and Nauman Khan. "RFID authentication scheme based on hyperelliptic curve signcryption." *IEEE Access* vol. 9 pp. 49942- 49959, 2021, DOI: 10.1109/ACCESS.2021.3069429.

## TEACHING EXPERIENCE

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### 1. GIK Institute of Engineering Sciences and Technology, Pakistan AUG 2011—DEC 2016

Worked as a Lab Engineer, where my responsibility was to teach the following Lab Courses to bachelor's degree students.

- Introduction to Programming Lab using C\C++
- Object Oriented Programming Lab using Java
- Introduction to Databases Lab using SQL\MYSQL and PHP

## **2. Elementary and Secondary Education Department, KPK, Pakistan    Jan 2017—Feb 2020**

Worked as Subject Specialist (SS) IT, where my responsibility was to teach the following courses.

- Introduction to Computer Science 11<sup>th</sup> grade students
- Introduction to Computer Programming in C++ 12<sup>th</sup> grade students

### **AWARDS AND ACHIEVEMENTS**

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- HEC Scholarship for PhD
- Prime Minister NICT Scholarship for B.S
- Secured first position in matriculation

### **LANGUAGES**

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English, Urdu, Pashto (native language)

### **INTERESTS AND HOBBIES**

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Table Tennis, Hiking, Cricket and Swimming