

Zeeshan Raza

Personal Data

Date of Birth January 04, 1990
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Education

Sep 2017-Current



Doctor of Philosophy in Computer Science

Institute: Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad Pakistan

PhD scholar with research interests in Blockchain Technology, Smart Contracts, Complex Adaptive Networks, Formal Methods and Cloud Computing. More specifically, I am working on Blockchain based smart Logistics.

Supervisor: Dr. Irfan ul Haq

Sep 2013-Mar 2016



Master of Science in Computer Science

Institute: COMSATS Institute of Information Technology, Sahiwal Pakistan

CGPA: 3.48/4.0

Program Description: Master program was focused on core and advance topics in Algorithms Analysis, Computer Architecture, Operating System, Computer Networks, Computer Vision and Software Engineering Technology.

Thesis: Improving Requirements Specifications using VDM++

Supervisor: Prof. Dr. Nazir Ahmad Zafar

Sep 2008-Jul 2012



Bachelor of Science in Computer Engineering

Institute: COMSATS Institute of Information Technology, Abbottabad Pakistan

CGPA: 3.41/4.0

PEC Registration Number: COMP/13058

Program Description: Bachelor program was focused on core topics of Electrical Engineering and Computer Science i.e. Electric Circuits, Electronics, Data Structure, Digital Logic Design, Computer Organization, Operating System, Network Programming and System Programming to develop computer hardware and software.

Final Year Project: Spectrum Sensing in Cognitive Radio Networks

Supervisor: Dr. Ahmad Fayyaz

2006-2008



F.Sc Pre-Engineering

Institute: Govt. College, Sahiwal Pakistan

Marks: 889/1100

2004-2006

Matriculation

Institute: Govt. Comprehensive School, Sahiwal Pakistan

Marks: 903/105

Work Experience

Nov 2018-Oct 2020 **Teaching Assistant**



Organization: Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad Pakistan

Responsibilities: Responsible for conducting labs of subject *Computing Fundamental* and *Blockchain Technology and Applications*

Sept 2017-Sept 2018 **Visiting Lecturer**



Organization: Iqra University, Islamabad Pakistan

Responsibilities: Responsible for teaching the subject of *Formal Methods in Software Engineering*.

Feb 2015-Dec 2015 **Teaching Assistant**



Organization: COMSATS Institute of Information Technology, Sahiwal Pakistan

Responsibilities: Responsible for conducting labs of the following subjects:

- *Introduction to Computer Programming*
- *Algorithms and Data Structures*
- *Object Oriented Programming.*

Certifications

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Blockchain Cryptocurrency Course 101* provided by *Udemy*.

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Blockchain for Healthcare* provided by *Udemy*.

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Learn the Secrets of Blockchain* provided by *Udemy*.

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Create Website from Scratch* provided by *Udemy*.

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Being and Effective Learner* provided by *Udemy*.

November 2018



Organization: Udemy

Demonstration: Certificate of achievement for successfully completing online course of *Introduction to Graphic Design* provided by *Udemy*.

October 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Big Data 101** (BD0101EN, provided by Cognitive Class)

October 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Bitcoin 101** (DS0321EN, provided by Cognitive Class)

October 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Python 101 for Data Science** (PY0101EN, provided by Cognitive Class)

October 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Blockchain Essential** (BC0101EN, provided by developerWorks)

October 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Introduction to Data Science** (DS0101EN, provided by developerWorks)

October 2018



Organization: Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad Pakistan

Demonstration: Certificate of participating for presenting **Blockchain in Logistics and Supply Chain** in International Symposium on Advances in Computer and Information Sciences 2018 (ISACIS' 18) held at PIEAS, Islamabad

August 2018



Organization: Higher Education Commission Pakistan and ITROOS Private Limited

Demonstration: Certificate of achievement for successfully completion of on month HEC Sponsored **Blockchain Training Workshop** organized and hosted by University Institute of Information Technology (UIIT), PMAS-Arid Agriculture University Rawalpindi.

August 2018



Organization: Higher Education Commission Pakistan (National Computing Education Accreditation Council)

Demonstration: Certificate of participating in one day seminar on **Blockchain** held at FAST-NU Islamabad.

July 2018



Organization: Acumen Excellence

Demonstration: Certificate of participation for attending two days training workshop on **Personal and Professional Grooming** held on 6th and 7th July 2018 at Pearl Continental Hotel Rawalpindi.

June 2018



Organization: IBM / Cognitive Class

Demonstration: Certificate of achievement for successfully completing online course of **Blockchain Foundation Developer** (BC0201EN, provided by developerWorks) and online course on Cognitive Class.

April 2018



Organization: Acumen Excellence

Demonstration: Certificate of participation for attending one day training program on **Future of IOT** held on 19th April 2018 at Marriott Hotel Islamabad.

Publications

2023



Zeeshan Raza, Irfan UI Haq & Muhammad Muneeb, "Agri-4-all: A framework for blockchain based agricultural food supply chains in the era of fourth industrial revolution" *IEEE Access*, 2023

2021



Zeeshan Raza, Irfan UI Haq, Muhammad Muneeb & Omair Shafiq, "Energy Efficient Multiprocessing Solo Mining Algorithms for Public Blockchain Systems", *Scientific Programming*, Hindawi 2021.

2021



Muhammad Muneeb **Zeeshan Raza**, Irfan UI Haq & Omair Shafiq, "SmartCon: A Blockchain-based Framework for Smart Contracts and Transaction Management." *IEEE Access*, 2021

2021



Muhammad Muneeb, **Zeeshan Raza**, "Tree-Based Blockchain Architecture for Supply Chain", *International Journal of Blockchains and Cryptocurrencies*, Inderscience, 2020

2016



Hafiz Muhammad Tahir , Ayza Shoukat, Shafique Hussain, Muhammad Nadeem, **Zeeshan Raza**, Nazir Ahmad Zafar "Formalization of Security Properties using VDM-SL", *IEEE*, 2016.

Honors and Awards

2016



Recommended by Inter Services Selection Board (ISSB)

Course Type: Direct Captain through Short Service Commission (SSC)

2008



Fully funded scholarship for 4 years' degree of Bachelor in Computer Engineering.

Scholarship Type: Prime Minister's National ICT Scholarship Program (PMNICTSP) funded by National ICT R&D Fund

Projects

2016



Improving Requirements Specifications using VDM++

Description: Project deals implementation and validation/verification of Healthcare case study in VDM-SL and VDM++ Toolboxes.

2012



Implementation of Spectrum Sensing Techniques in GNU Radio, MATLAB and LAB View

Description: Project deals with 3 Spectrum Sensing Techniques and their development in MATLAB, GNU Radio and LAB View. The simulated techniques are:

- Energy Detection
- Matched Filtering
- Covariance based Detection

Conferences, Workshops and Seminars Attended

July 2018	International Seminar “CPEC: An Extra Regional Perspective”, held at National Defense University Islamabad Pakistan.
July 2018	6th Blockchain Special Interest Group Meeting on Blockchain in Industry 4.0, held at Bahria University Islamabad Pakistan.
April 2018	Pakistan Productivity, Quality, Innovation (PQI) Initiative Launch and Stockholders Conference, held at Quaid-e-Azam Auditorium, Faisal Mosque Campus Islamabad Pakistan.
March 2018	3rd Blockchain Special Interest Group Meeting on Blockchain Medical Usecase, held at FAST-NU Islamabad Pakistan.
December 2015	13th International Conference on Frontiers of Information Technology, held at Serena Hotel Islamabad Pakistan.
December 2014	12th International Conference on Frontiers of Information Technology, held at Serena Hotel Islamabad Pakistan.

Skills

Programming Languages	C/C++ VDM-SL/VDM++ Java Script PHP Python Solidity Golang	    
Tools Used	MS Office Package Dev C++ VDM Toolbox NetLogo Visual Studio MATLAB GNU Radio LabVIEW UPPAAL Ganache/Truffle Suite HyperLedger Fabric	         

Languages

Urdu Mother-tongue

Punjabi	Fluent
English	Fluent

References

- Dr. Irfan ul Haq **Position:** Principal Scientist
Organization: Pakistan Institute of Engineering and Applied Sciences,
Islamabad Pakistan
Email: irfanulhaq@pieas.edu.pk
- Dr. Javed Ferzund **Position:** Associate Professor
Organization: COMSATS Institute of Information Technology,
Sahiwal Pakistan
Email: jferzund@ciitsahiwal.edu.pk

