Mishaal Ahmed

EDUCATION AND TRAINING

01/08/2018 – 01/08/2021 Lahore, Pakistan
MASTER OF SCIENCE IN INFORMATION TECHNOLOGY University of Management and Technology

Website https://www.umt.edu.pk/ ⎪ **Field of study** Information and Communication Technologies ⎪ **Final grade** 3.55 ⎪ **Level in EQF** EQF level 7 ⎪

Thesis A Survey on Blockchain Acquainted Requirements Engineering: Challenges, Opportunities, and Future Directions

01/10/2013 – 01/08/2017 Lahore, Pakistan
BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING University of Management and Technology

Website https://www.umt.edu.pk/ ⎪ **Field of study** Information and Communication Technologies ⎪ **Final grade** 3.69 ⎪ **Level in EQF** EQF level 6

WORK EXPERIENCE

01/08/2023 – CURRENT Karachi, Pakistan
RESEARCH AND DEVELOPMENT ENGINEER (REMOTE) KODEGEMS

Conducting research tailored to specific projects, ensuring alignment with modern IT infrastructure and integrating security standards for safe, reliable website experiences. Testing modules to identify vulnerabilities, including zero-day exploits, and gathering user feedback to improve software. Executing performance and accessibility testing, along with data analysis, to enhance overall user experience.

01/05/2022 – 01/06/2023 Lahore, Pakistan
TEACHING FELLOW UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Department of Computer Science

- Conducting teaching sessions for undergraduate students
- Supervising and demonstrating laboratory experiments to undergraduate students.
- Assisting department in administrative duties and other day-to-day activities.
- Assisting and guiding undergraduate students in semester projects.
- **Subject(s)**: Fundamentals of Programming
- **Member of Committee(s)**: FYP Committee (Member), Internship Interview Committee (Member), Research Evaluation Committee (Member), Server Administrator for ECAT Bahawalpur (Core Member)

14/12/2021 – 06/05/2022 Lahore, Pakistan
LAB ENGINEER THE SUPERIOR UNIVERSITY

Department of Information Engineering and Technology

- Supervision and demonstration of laboratory experiments to undergraduate students.
- Manage laboratory equipment and consumables, write reports and other day-to-day teaching assignments.
- Facilitate undergraduate students in semester projects.
- **Subject(s)**: Introduction to Computing, Programming Fundamentals, Object-Oriented Programming, Computer Applications

01/10/2020 – 01/09/2022 Lahore, Pakistan
GRADUATE TEACHING ASSISTANT UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

School of Systems and Technology

- Class Supervision, Student Assessment and Counselling
- Assisting Professor in Academics or Research
- 25 hours/week
- **Subject(s):** Blockchain and Applications (2021), Software Design and Architecture (2021), Internet of Things (2020)

01/10/2019 – 31/10/2020 Lahore, Pakistan
WEB APPLICATION DEVELOPER THINKSOLUTIONZ

- Worked with a remote team to develop and maintain PHP web applications, managing MySQL databases and updating features per client feedback. Wrote reusable code, debugged issues, and gained experience in HTML, CSS, and JavaScript, while participating in team progress meetings.

10/07/2018 – 07/08/2018 Lahore, Pakistan
TRAINEE MONITORING AND QUALITY ASSURANCE DEPARTMENT NESPAK (NATIONAL ENGINEERING SERVICES PAKISTAN)

Member of Networking and QA group. Responsible for troubleshooting network issues, managing network services, development of NESMAN system, and ensuring software quality standards.

12/12/2017 – 19/06/2018 Lahore, Pakistan
LAB ASSISTANT UNIVERSITY OF SOUTH ASIA

Department of Electrical Engineering

- Laboratory Supervision, Student Assessment and Counselling
- Creating Lab Modules
- Assisting Professor in Academics
- 25 hours/week
- **Subject(s):** Programming Fundamentals, Computer Applications

01/08/2016 – 05/02/2018 Lahore, Pakistan
TEACHING ASSISTANT UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

School of Systems and Technology

- Class Supervision, Student Assessment and Counselling
- Assisting Professor in Academics or Research
- 25 hours/week
- **Subject(s):** Digital Logic Design (2018), Software Engineering (2017), Software Requirements Engineering (2017), Software Project Management (2017), Programming Fundamentals (2017), Calculus (2016)

LANGUAGE SKILLS

Mother tongue(s):   **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Web development (HTML/CSS, JavaScript) | Laravel PHP and My SQL - Basic Knowledge | Adobe Photoshop, illustrator, AI | C/C++/Python/Assembly | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced | IDE (Netbeans, Eclipse, Visual Studio, Visual Studio Code) | Project management tools (Trello, Hive, etc.) | Latex/Overleaf | Virtual Machines (Virtual Box, VMware) | Google Tools (Google Trends - Google Analytics - Google Drive - Google Alert - Google Adwords) | SEO Tools: Semrush, Google Search Console, Ubersuggest | Linux kernel (compilation, customisation, development) | SONiC OS | C/C++/Java/Python | AFL/kAFL/SyzKaller | GDB/Visual Studio Debugger/Xdebug/ | Network Monitoring Tools (Wireshark, PRTG) | Spyder - Anaconda | Microsoft Windows Troubleshooting | Blockchain Ethereum Development

PUBLICATIONS

2024
PRXFuzz: A Method to Find Vulnerabilities in Distributed Networking Applications

Conference Paper: Accepted at **29th IEEE Symposium on Computers and Communications (ISCC):** TrustAICyberSec2024 but not published yet

Mishaal Ahmed

2024
A Framework for Blockchain Based Trade Finance System

Manuscript Ready for **IEEE Access** (In Progress)

Mishaal Ahmed

2022
A Survey on Blockchain Acquainted Software Requirements Engineering: Model, Opportunities, Challenges, and Future Directions

M. Shoaib Farooq, Mishaal Ahmed, and M. Emran. IEEE Access

2022
A Survey on Fog computing in IoT

MA Rasheed, Jabar Saleem, HA Tanveer, Mannan A Rasheed, H. Murtaza, Mishaal Ahmed. VFAST

2022
Use of big data governance in several corporate sectors

MA Rasheed, Hafiz Zeeshan Ahmad, H. Murtaza, HA Tanveer, Mannan A Rasheed, Mishaal Ahmed, VFAST

2022
Data Privacy Issue in Federated Learning Resolution using Blockchain

MA Rasheed, Shah Uddin, HA Tanveer, Mannan A Rasheed, Mishaal Ahmed, H. Murtaza. VFAST

2022
Energy Trading and Control in Microgrid Network by using Blockchain Technology

M. Ahmed, Mishaal Ahmed, M. Javeed, L. Farhi, I.U. Haq, A. Yousaf, and MA Rasheed, VFAST

2022
Application of blockchain technology in energy sector for sustainable future

L Farhi, U Laila, A Ahmed, M Ahmed, Mishaal Ahmed, FA Siddiqui, VAWKUM

2022
Comparison of Clean Energy Trading Method in Microgrid by using Blockchain Technique

Ahmed, M., Ali, A.Y., Rehan, M., Ahmed, A., Amin, U., and Mishaal Ahmed, VFAST

2022
Harvesting Sea Wave Energy by Using Point Absorber and Blockchain Technology

A. Ahmed, SF Liaquat, HH Rizvi, M Ahmed, JA Rizvi, and Mishaal Ahmed, VFAST

2022
Blockchain Based Renewable Energy P2P Trading in Smart Grid

Mishaal Ahmed, Asif Nawaz, Mohammad Javeed Ahmed, PrePrint

2022
Solving Triangle Routing Problem by Using Route Optimization Technique in Mobile.

M. Ahmed, I.U. Haq, HH Rizvi, S.A. Khan, J.A. Arshad, and Mishaal Ahmed,

2021
Application of Blockchain in Green Energy for Sustainable Future

Mishaal Ahmed, M. S. Farooq, M. Ibrar-ul-Haque, M. Ahmed, H. Maqbool, and A. Yousaf, ICEET 2021

2020
Recent Trends and Innovation in Energy Sector- Energy Devices and Components

M. Ahmed, Mishaal Ahmed and Asif Nawaz, Book

2019
Decentralized Power Control Microgrid for Smart Homes

M. Ahmed, Asif Nawaz, Mishaal Ahmed, and M. Shoaib Farooq. Journal of SGRE

2018
Applications of Nanosensors in Advanced Engineering

Mishaal Ahmed, M. Ahmed and Asif Nawaz, Book

2017
[Applications of Nanotechnology in Electrical Engineering](#)

M. Ahmed, Mishaal Ahmed, and Ali Aizaz, Book

● CONFERENCES AND SEMINARS

14/02/2019 – 18/02/2019 Harvard College, Cambridge, Massachusetts, US
HPAIR Conference for Asian Relations & Development

Invited as a Delegate

● NETWORKS AND MEMBERSHIPS

16/05/2024 – CURRENT Italy
IEEE Student Membership

I am a Student Member of IEEE

● HONOURS AND AWARDS

28/09/2015
Dean's Merit Award – University of Management and Technology

In recognition of the fulfillment of prescribed requirements MISHAAL AHMED is awarded this certificate on securing semester GPA 3.95/4.00 in Bachelor of Science in Software Engineering in Spring 2015 Semester

● HOBBIES AND INTERESTS

Reviewing Research Papers

Serving as a **Technical Reviewer** at Q1 Journal. Reviewed 40+ publications
WoS Profile: https://www.webofscience.com/wos/author/record/AHD-7900-2022

Technology Enthusiast

Keen interest in experimenting with the latest software tools, programming languages, and emerging technologies.

● RECOMMENDATIONS

Dr. Shoaib Farooq

Professor,
University of Management and Technology, Lahore, Pakistan

Email shoaib.farooq@umt.edu.pk

Dr. Agha Yasir Ali

Professor,
Sir Syed University of Engineering and Technology, Karachi, Pakistan

Email agyasir@ssuet.edu.pk

Dr. Asif Nawaz

Associate Professor,
Higher Colleges of Technology, Dubai, United Arab Emirates

Email anawaz@hct.ac.ae

Dr. Manzar Ahmed

Assistant Professor,
Sir Syed University of Engineering and Technology, Karachi, Pakistan.

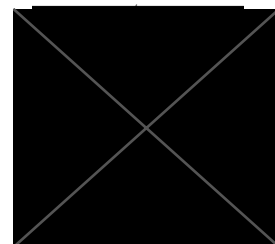**Email** manzara@ssuet.edu.pk

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

Il/La sottocritto/a_____MISHAAL AHMED_____,
ai sensi e per gli effetti degli articoli 46 e 47 e consapevole delle sanzioni penali previste dall'articolo 76 del D.P.R. 28 dicembre 2000, n. 445 nelle ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che le informazioni riportate nel presente curriculum vitae, redatto in formato europeo, corrispondono a verità.

LAHORE   15/11/2024

Luogo e data

Firma