MOHD MAJID AKHTAR

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Blockchain PhD Aspirant

Interests: Blockchain, Distributed Ledger Technology, Security, Privacy Cryptocurrency, Internet of Things, Supply Chain, Healthcare

PROFILE

I have keen interest in Blockchain (Ethereum, Hyperledger Umbrella), Distributed Ledger Technology (IOTA), Supply Chain solutions and have dedicated experience in Blockchain. I am a research enthusiast and want to excel in this research domain. I did my post-graduation (Master's Degree) from Jamia Millia Islamia, New Delhi, India. I am a fast learner and **looking for fully funded PhD position opportunities in Blockchain and DLT**.

EDUCATION

MASTER OF TECHNOLOGY (COMPUTER ENGINEERING) BATCH OF 2018-2020

Jamia Millia Islamia, Central University, New Delhi, India (2018-2020)
Grade: 9.76/10 C.G.P.A, **Gold Medalist**
Advisor: Mr. Danish Raza Rizvi (Assistant Professor)
Thesis: Investigation in **Blockchain-DLT** Environment and Integration with Internet of Things

BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING) BATCH OF 2014-2018

Al-Falah University (2014-2018)
Grade: 82.88%, **Silver Medalist**
Advisor: Mr. Mohd Sadim (Assistant Professor)
Project Title: In Vitro Fertilization (IVF) Diagnosis Health Care System

RESEARCH EXPERIENCE

Enhanced 'MAM Data Stream' by second layer of digital signature scheme. Investigated extensively in IOTA platform and added ed25519 Digital Signature scheme for verification over shared Masked Authenticated Message (MAM) data streams and implemented IoT secured and verified data channels using MAM and IOTA Tangle.

Implemented PoC of BAuth-ZKP protocol for secure login. Developed a new model of authentication service like OAuth (Open Authentication) using Ethereum Blockchain and added Zero Knowledge Proof mechanism for secure login without sharing actual credentials.

Developed PoC of new Micro-payment enabled Over-the-Top (OTT) platform Developed New Media Streaming platform based on pay-as-you-go and consumption model using IOTA native currency.

INDUSTRY EXPERIENCE

JUNE 2017-JULY 2017

MixOrg Consultancy Services Private Limited | Technical Intern

Successfully build a system for IVF doctors where there was mobile application at patient's side and on the other was a web app for IVF Doctor. This project also served as **Bachelor's project**.
I worked here as **Android Developer** and also made a Web App. I learned **Google Firebase** as a backend service and many other supporting tools in the process. Most importantly, it was first place for me to learn the professional work ethics.

PUBLICATIONS

Akhtar, M. M., & Rizvi, D. R. **"IoT-Chain: Security of things for Pervasive, Sustainable and Efficient Computing using Blockchain"**. In: Energy Web, EAI Transaction (2020), **DOI: 10.4108/eai.13-7-2018.164628**

Akhtar, M. M., & Rizvi, D. R. "Traceability and Detection of Counterfeit Medicines in Pharmaceutical Supply Chain Using **Blockchain-Based Architectures"**. In: P. S. Ahad Mohd Abdul, Sustainable and Energy Efficient Computing Paradigms for Society. (2020). EAI/Springer Innovations in Communication and Computing. Springer, Cham, **DOI: https://doi.org/10.1007/978-3-030-51070-1_1**

WORK IN SUBMISSION

Ahad, M.A., Tripathi, G., **Akhtar, M. M.**, Paiva, S., Feroz, N, Rizvi, D. R. & Sharma, S.K. **"**Multifactor Authentication for Smart Cities – A Survey of Needs, Issues, Challenges and the Road Ahead**"**. Proceedings of the IEEE, **Impact Factor: 10.252, (November 2020, Under Review)**

Akhtar, M. M., Ahad, M. A. Rizvi, D. R. & Chakraborty, C. **"Distributed Ledger Technology** based Robust Access Control and Real-Time Synchronization for Consumer Electronics**"**, Special Issue in IEEE Consumer Electronics Magazine, **Impact Factor: 4.06, (October 2020, Under Review)**

WORK IN PROGRESS
(OPEN FOR COLLABORATION)

Akhtar, M. M., Rizvi, D. R., Ahad, M. A. & Amjad, M. "Efficient Data Communication Using **Blockchain, DLT and IOTA** Enabled Internet of Things and Future M2M Economy", **IEEE Communications Surveys and Tutorials, Impact Factor: 23.7 (Targeted Journal)**

Akhtar, M. M., Ahad, M. A. Rizvi, D. R., Tripathi, G. & Chakraborty, C. "Kisaan Chain Network – A **Blockchain** Based Supply Chain Platform for the Indian Agricultural Sector", **Elsevier (Targeted Journal)**

Akhtar, M. M., Rizvi, D. R. & Ahad, M. A. "Brief Investigation & Idea behind Cryptocurrencies and Deployment of ERC-20 Tokens on Test Net Ethereum **Blockchain**", **Springer (Targeted Journal)**

Akhtar, M. M., Zaman, S. "**Blockchain** for Multimedia and New Business Model in Smart City", **Springer (Targeted Journal)**

Akhtar, M. M., Zaman, S. "**Blockchain** and Consensus Protocols Review and Enhancement"

SERVICES

- **Verified Reviewer** at **"IEEE Internet of Things Journal", Impact Factor: 9.5**
- **Voluntarily Reviewing** at **"Multimedia Tools and Applications, Springer", SCIE, Scopus Indexed, Impact Factor: 2.313**

SEMINARS

Took successive seminars on **"Detailed Investigation & Idea behind Cryptocurrencies and Deployment of Tokens on Ethereum Blockchain"** at Departmental level.

CERTIFICATIONS

Blockchain App Development Certification @ IIT Delhi | Generation Blockchain Completed 3-Day intensive workshop from June 29 - July 1, 2018 on Blockchain development in partnership with eCells of IIT Delhi, BITS Pilani, DTU and IIIT Delhi.

"Solidity Smart Contracts: Build DApps in Ethereum" from Udemy online course. Credential ID: UC-2GJA6H89 (See Credential)

"**Blockchain: Foundation and Use Cases" by ConsenSys Academy"**. Credential ID: DFRBL4G4Q85E (See Credential)

"Blockchain Programming with Hyperledger Composer and Fabric" | We2Blocks (Udemy), Credential ID: UC-L46PY443 (See Credential)

HONORS AND AWARDS

MARCH 2017

Best Upcoming Entrepreneur | <u>Technia Institute of Advanced Studies</u>
Received **'Best Upcoming Entrepreneur'** recognition in the Inter University "Business Plan Competition".

APRIL 2017

Best Power Point Presentator | Al-Falah University
Received **1st Prize** for the 'PowerPoint Presentation' on the Theme 'Sustainable Earth' on the eve of Earth Day on 22nd April, 2017 which was sponsored by Ministry of Earth Sciences, Govt. of India.

OCTOBER 2015

Attended Panel Discussion on "Reimagining the Future" | PHD Chamber of Commerce and Industry
Panel Discussion on "Reimagining the Future" with **US Ambassador Mr. Richard Verma** and **Mr. Mitch Daniels**, Former Governor of Indiana and President of **Purdue University** at PHD House, New Delhi.

MARCH 2019

Graduate Aptitude Test in Engineering (G.A.T.E.) Qualified

MARCH 2019

Football Team Captain & Midfielder, Faculty of Engineering and Technology
Winner at Inter-Faculty Football Tournament (M), JMI, 2019
Runner-up at Intra-Faculty Football Tournament, JMI, 2019

2014-2020

Attended workshops on **Blockchain**, Ethical Hacking, CCNA, **IOTA**, **TEDxJMI**, **oneM2M Standardization** Collaboration for IOT by C-DOT Campus, Python Workshop by Developers Nation & RedInno.

REFERENCES

PRIMARY SUPERVISOR

Mr. Danish Raza Rizvi
Assistant Professor, Department of Computer Engineering
Jamia Millia Islamia, New Delhi, India
drizvi@jmi.ac.in

JOINT SUPERVISOR

Dr. Mohd Abdul Ahad
Assistant Professor, Department of Computer Science and Engineering
Jamia Hamdard, New Delhi, India
itsmeahad@ieee.org, itsmeahad@gmail.com

JOINT SUPERVISOR

Dr. Tanvir Ahmad
Head and Professor, Department of Computer Engineering
Jamia Millia Islamia, New Delhi, India
tahmad2@jmi.ac.in

PERSONAL INFORMATION

DATE OF BIRTH

30th August, 1996

MARITAL STATUS

Single

NATIONALITY

Indian

RESIDENTIAL ADDRESS

B-117, Jamia Enclave, Near Tikona Park, Jamia Nagar, New Delhi-110025, India

LANGUAGES KNOWN

English, Hindi

I hereby declare that all the above information is correct and accurate. I solemnly declare that all the information furnished in this document is free of errors to the best of my knowledge. I hereby declare that all the information contained in this resume is in accordance with facts or truths to my knowledge.

DATE: 21/01/2021

(MOHD MAJID AKHTAR)