

# TALHA WAHID

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## Executive Summary

- 8+ years of hands-on in IT Industry including 4 years in Architecture, Design, Development and Deployment of Blockchain based solutions.
- Certified Blockchain Solution Architect (CBSA) from Blockchain Training Alliance (BTA).
- Experience in Technical Consulting on various Blockchain use cases to ensure proper adoption of the Blockchain Technology.
- Experience of working in Digital Transformation projects related to Blockchain implementation.
- Have worked on building Blockchain strategy and Governance structures for clients.
- Have good experience in developing Blockchain based applications on Hyperledger Fabric, Substrate, Polkadot, MultiChain and Ethereum.
- Have served at the capacity of Solution Architect, Team Lead and Senior Developer with responsibilities to maintain higher client satisfaction and overseeing team work.
- Have experience in deploying substrate network on Polkadot Blockchain in production.
- Have experience in deploying production grade Hyperledger Fabric network using Docker swarm and on kubernetes cluster.
- Have experience in Digital Transformation and Strategy building for use case implementations.
- Experience in deploying MultiChain network in production environment.
- Certified from IBM: Blockchain Foundation Developer, Blockchain Essential and Docker Essential.
- Mulesoft Certified Developer with good experience of development in Anypoint Studio including Mulesoft Cloudhub and RAML.
- Experience in writing chaincodes using GoLang and smart contracts in Solidity.
- Have working knowledge of Bitcoin and other cryptocurrencies and tokens including Tezos.
- Experience in using Rust and writing pallets in substrate.
- Good Programming skills in Node.js, Go and Java.
- Experience in developing applications on MultiChain and integrating with the network.
- Implemented Ethereum based usecases using Truffle and Ganache and used web3.js for integration.
- Good understanding of Blockchain frameworks like Hyperledger Sawtooth, R3 Corda and Quorum.
- Familiar with the concepts of PKI, Zero Knowledge Proof and Hashgraph technology.
- Used IPFS (Inter Planetary File System) to securely store files and deployed multinode IPFS cluster on kubernetes and integrated IPFS with node based applications.
- Experience is setting up MinIO cluster on kubernetes network and using it with node application for object storage.

## Technical Capabilities

- Core Technologies: Blockchain, Hyperledger Fabric, MultiChain, Ethereum, Substrate, Polkadot.
- Programming Skills: Node.js, GoLang, Java, and Solidity.
- Other Technologies: Docker, Kubernetes, IPFS, MinIO, Mule ESB.

## Professional Experience

- Blockchain Developer at Aqilliz from Nov 2021 to till date.
- Senior Consultant at PwC India from Nov 2020 to Nov 2021.
- Senior Consultant at iNetFrame Technologies (for PwC India) from Nov 2018 to Nov 2020.
- Senior Consultant at Quinnox from Nov 2017 to Oct 2018.
- Senior Software Engineer at Qudos Digital from Jul 2014 to Nov 2017.

## Educational Qualification

- Pursuing MBA (2021-2023 batch) from Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Bachelor of Technology from Uttar Pradesh Technical University, Lucknow in the year 2014.
- ISC from St. Joseph's College, Allahabad in the year 2010.
- ICSE from St. Joseph's College, Allahabad in the year 2008.

## Projects

**Project:** ATOM Audience Measurement

**Client:** Airtel Ads

**Duration:** From Nov 2021 to till date.

**Role:** Blockchain Developer

**Description:** Calculation of common audience between Publisher and Brand to provide measurement for brand to run their campaigns on Publisher side.

**Responsibilities:**

- Developed and deployed substrate network on Polkadot.
- Developed Trigger to automatically generate data from DB and store the transaction on Blockchain.

**Project:** Kaveri Blockchain Property Registration

**Client:** Department of Stamps and Registration, Karnataka

**Duration:** From Oct 2021 to Nov 2021.

**Role:** Blockchain Consultant

**Description:** Integrating Kaveri application with a Blockchain based solution for secure registration of land records.

**Responsibilities:**

- Writing test cases and testing the application by doing transactions.
- Coordinating with various government departments and preparing MoMs.

**Project:** KSA Blockchain Service Infrastructure (KBSI)

**Client:** Kingdom of Saudi Arabia

**Duration:** From Apr 2021 to Sep 2021.

**Role:** Blockchain Consultant

**Description:** Assessment of readiness in implementing Blockchain as a Solution in KSA. Development of Blueprint for nationwide Blockchain implementation in KSA.

**Responsibilities:**

- Assessing Data Center readiness for Blockchain implementation and identifying gaps.
- Developing Blockchain assessment report for implementation.
- Designing Blockchain Technical Blueprint with functional and technical architecture.

**Project:** Postmatric Scholarship E-Attestation

**Client:** Centre for Smart Governance, Karnataka

**Duration:** From Jan 2021 to Mar 2021.

**Role:** Blockchain Developer

**Description:** E-Attestation of documents uploaded by students and storing the signed document on MultiChain.

**Responsibilities:**

- Deployed 3 node MultiChain network in production environment.
- Developed and deployed node application for interacting with MultiChain network.
- Integrated the node application with the E-Attestation application on php.

**Project:** NIC Blockchain Implementation

**Client:** National Informatics Centre

**Duration:** From Oct 2020 to Dec 2020.

**Role:** Blockchain Developer

**Description:** Setting up a production grade Hyperledger Fabric network over a kubernetes cluster and deploying a Markscard use case which stores the 10<sup>th</sup> and 12<sup>th</sup> class marksheet in xml format on Blockchain and can be later verified by other agencies by retrieving marksheet from the ledger.

**Responsibilities:**

- Deployed multinode Fabric network on Kubernetes cluster.
- Developed and deployed node based markscard application on kubernetes cluster.
- Developed and deployed IPFS and MinIO based applications on kubernetes cluster.

**Project:** Blockchain based ATM Reconciliation  
**Client:** Syndicate Bank (Banking Domain)  
**Duration:** From Oct 2019 to Sep 2020. **Role:** Blockchain Developer  
**Description:** Blockchain based application to automate reconciliation of financial transactions through ATM by reading data from EJ (Electronic Journal). Real-time data access happening from ATM, Switch and Core Banking System (CBS), and consolidated report is stored on Blockchain ledger.  
**Responsibilities:**

- Designed and developed the application on Node.js.
- Deployed the application at Bank's secured servers and integrated it with the Bank's DB.

**Project:** Maha Shrunkhala (Blockchain Sandbox)  
**Client:** Directorate of Information Technology, Government of Maharashtra  
**Duration:** From Oct 2019 to Feb 2020. **Role:** Blockchain Consultant  
**Description:** Sandbox is a Blockchain infrastructure platform designed for testing and deploying of Blockchain use cases. It is a Hybrid platform consisting of multiple cloud providers and Blockchains.  
**Responsibilities:**

- Contributed to the Functional Requirement Specification (FRS) of the project.
- Worked on technical To-Be documents of usecases for development and deployment on sandbox.

**Project:** Gatekeeper  
**Client:** Treasury Department, Government of Karnataka  
**Duration:** From Nov 2018 to Sep 2019. **Role:** Blockchain Developer  
**Description:** Gatekeeper is a Blockchain-based Risk and Reconciliation platform designed for Integrated Finance Management System (IFMS). Gatekeeper validates the Payment files on Blockchain for KhajaneII.  
**Responsibilities:**

- Designed and developed the application on Node.js and deployed it at Treasury servers.
- Defined and developed the validation logic and wrote chaincode in GoLang.

**Project:** Patent Management System (PoC)  
**Client:** Internal Project (Quinnox)  
**Duration:** From Jul 2018 to Oct 2018. **Role:** Blockchain Developer  
**Description:** Platform for securely storing documents on Blockchain and providing key based access. Consent based application where the user specifies the time duration for accessing the document.  
**Responsibilities:**

- Developed the application using Ethereum and Truffle framework.
- Used IPFS for securely storing the file and generating the hash.

**Project:** Coca-Cola Blockchain (PoC)  
**Client:** CCR BIG AMS [North America] (Retail Domain)  
**Duration:** From Nov 2017 to Jun 2018. **Role:** Blockchain Developer  
**Description:** Providing automatic invoice generation between client and its vendors using Hyperledger Fabric. Once the invoice is uploaded, it is stored in the ledger and can be accessed by the vendors.  
**Responsibilities:**

- Responsible for requirement gathering and developed initial draft of Proof of Concept.
- Participated in development of scope of work and assisted the team in developing wireframe.

**Project:** Custom Invoice Indexing Generation Engine ARS2 [CIG]  
**Client:** AON UK [ARS Belgium] (Insurance Domain)  
**Duration:** From Sep 2016 to Oct 2017. **Role:** Software Developer  
**Description:** CIG automates the entire process flow of invoicing, starting from a new subscription, when the invoice is created, to all payments made between the AON primary stores and customers.  
**Responsibilities:**

- Developed workflow for Email feed, FTP feed and for sending invoices to customers.

**Project:** Data Purging and archival [AON Implementation for Alpha Stores]  
**Client:** AON UK [ARS Belgium] (Insurance Domain)  
**Duration:** From Aug 2014 to Sep 2016. **Role:** Software Developer  
**Description:** Archival and purging of data that hasn't been modified in months from the production line.  
**Responsibilities:**

- Developed modules on core Java and web services and created interface for authentication methods.