

# M. USMAN AFTAB ABBASI

## WEB DEVELOPER

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 Islamabad

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As a Software Developer Engineer with 3 years of experience, I bring expertise in Blockchain, Node.js, and Python. Skilled in creating collaborative work environments, developing advanced web applications across platforms, and designing scalable databases with cutting-edge technologies. Passionate about exploring new technologies and staying up-to-date with industry trends. With my proficiency in these skills, I am ready to contribute to your organization's growth and success.

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## WORK EXPERIENCE

### SOFTWARE ENGINEER | FUNAVRY TECHNOLOGIES

OCT 2023-PRESENT

I've worked extensively with smart contracts (Solidity), backend technologies (Express, Nest.js, MongoDB), and frontend development (React, Next.js). I contributed to "WorkAspRO," a blockchain-based freelancing platform with escrow functionality. Additionally, worked on a metaverse NFT marketplace for virtual land and wearables.

### SOFTWARE ENGINEER | BLOCK360

SEP 2021-OCT 2023

Block360 is a tech startup dedicated to creating blockchain solutions by harnessing both public and enterprise variations of blockchain technology. The primary responsibilities at Block360 include crafting server-side logic and constructing application programming interfaces (APIs), containerizing web applications using Docker, and deploying them on development servers, as well as designing and implementing smart contracts in the Solidity programming language.

### FULL-STACK WEB DEVELOPER | HAYYAN SYSTEMS

DEC 2022-SEP 2021

Hayyan Systems is a startup that specializes in web and mobile development. The key responsibilities at Hayyan Systems involve collaborating on server-side logic and constructing RESTful Application Programming Interfaces (APIs), working with websockets for real-time communication, and creating engaging user interfaces for interactive experiences.

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## PROJECTS

### Blockchain Freelancing Platform - "WorkAspRO"

OCT 2023-PRESENT

In spearheading the development of the "WorkAspRO" platform. Solidity was utilized for smart contracts, while Express and Nest.js were employed for backend architecture, and MongoDB for data storage. The implementation of escrow functionality, a pivotal aspect that significantly enhanced the platform's security and trustworthiness, was a key part of the role. Additionally, close collaboration with cross-functional teams ensured the seamless integration of frontend technologies such as React and Next.js. A comprehensive understanding and command of the entire development stack were instrumental in contributing to the project's overall success.

### Metaverse NFT Marketplace

OCT 2023-PRESENT

Led the technical aspects of a cutting-edge NFT marketplace focused on virtual land and wearables within a metaverse environment. Applied expertise in Solidity for smart contract development, ensuring secure and transparent transactions within the marketplace. Employed backend technologies, including Express, Nest.js, and MongoDB, to

create a robust and scalable infrastructure for the metaverse platform. Collaborated closely with the design and frontend teams to deliver an immersive user experience using React and Next.js.

## GSU

SEP 2022-OCT 2023

GSU is a decentralized platform with a primary focus on establishing a stable digital currency. In the pursuit of this goal, the project undertook several crucial tasks inspired by the MakerDAO protocol. This entailed the development and integration of oracles, which are sources of external data used to maintain the currency's stability, and the implementation of an Emergency Shutdown Mechanism (ESM). The ESM is a crucial component designed to ensure the security and integrity of the platform in case of unforeseen emergencies or critical situations. These efforts collectively contribute to GSU's mission of creating a dependable and stable digital currency within the decentralized ecosystem.

## DAB:LY

JUN 2022-SEP 2022

DAB:LY is an innovative initiative that seeks to expand upon the concept of merging precious metals with cryptocurrencies by embracing the capabilities of smart contracts and Decentralized Finance (DeFi) systems. As part of its developmental efforts, DAB:LY focused on the backend infrastructure, adopting a microservices architectural approach. This architecture consisted of four discrete services: the Authentication service, which handles user verification and access control; the Data service Extract-Transform-Load (ETL), responsible for data processing and transformation; the Notification service, designed to facilitate real-time notifications and communication; and the Fiat service, intended to bridge the digital world with traditional currency systems. This strategic division of services underscores DAB:LY's commitment to building a robust and comprehensive platform at the intersection of precious metals, cryptocurrencies, and DeFi, with a strong emphasis on secure and efficient backend development.

## IVOTING

FEB 2022-MAY 2022

IVoting is a web-based application designed to allow overseas Pakistani voters to cast their votes securely using blockchain technology. To enhance the security of this system, we collaborated with an open-source project developed by Microsoft called ElectionGuard. In ElectionGuard, ElGamal encryption is used to protect the voting process, ensuring that votes are kept confidential and secure. Additionally, we utilized FASTAPI to create a set of robust Application Programming Interfaces (APIs) for seamless and efficient communication within the system. This approach aims to provide a trustworthy and secure platform for overseas Pakistani voters, preserving the integrity of their voting process.

## EMS

OCT 2021-JUN 2022

EMS is a web-based application specifically designed to enable overseas Pakistani voters to securely exercise their voting rights through blockchain technology, emphasizing heightened security. Our contributions to this project include integration with Microsoft's open-source project, ElectionGuard, which employs ElGamal encryption to safeguard the integrity and confidentiality of the voting process. We have also implemented FASTAPI to develop a robust set of Application Programming Interfaces (APIs) for efficient communication within the system. These combined efforts ensure that EMS provides a trusted and secure platform for overseas Pakistani voters, upholding the highest standards of security and transparency throughout the voting process.

## PIXELBODO

FEB 2021-SEP 2021

PixelBodo is a social media platform that's tailored for connecting users with designers. In this project, our focus was primarily on the backend development using Django, which involves creating the server-side logic and functionality. We also took charge of designing and implementing the database using Postgres to efficiently store and manage data. Furthermore, we integrated the front-end of the platform using React, ensuring a seamless and

engaging user experience. These efforts collectively contribute to PixelBodo's mission of fostering connections between users and designers through a robust and user-friendly platform.

## EHR ON BLOCKCHAIN

AUG 2023-OCT 2023

In developing our Electronic Healthcare Record on blockchain, we prioritized patient data security through encryption and blockchain immutability. As the team lead, I coordinated a skilled team, managed project planning, and ensured effective communication. My leadership focused on risk mitigation and quality assurance, delivering a secure platform for managing patient records.

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## SKILLSET

- **Programming Languages-** Python, Javascript, Solidity
  - **Back-end Frameworks-** express.js, Nest.js, FastAPI, Django
  - **Data-Bases-** MongoDB, Postgres, MySQL
  - **Management Tools-** Github, Git.
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## EDUCATION

Bachelors in Information Technology | International Islamic University, Islamabad

**2016-2020**

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## LANGUAGES

**English-** Professional Proficiency

**Urdu-** Professional Proficiency