



# Irfan Khan

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## ● ABOUT ME

Innovative and visionary Full-Stack developer, dedicated to pushing the boundaries of web and mobile application development. With 6+ years of expertise in the field, I have spearheaded groundbreaking both Mobile and Web applications projects, harnessing the power of modern web/mobile technologies to shape the future of digital ecosystems.

## ● WORK EXPERIENCE

United States

### **FULL-STACK WEB & APP DEVELOPER** UPWORK

As a Full-Stack Developer, I created ERC20 and NFT tokens (ERC721 & ERC1155) and deployed smart contracts on Ethereum, Polygon, Binance Smart Chain, and Avalanche. I integrated Solidity contracts with ABOUT ME WORK EXPERIENCE React.js frontends and Node.js backends, working on various international projects. I also served as a Senior Blockchain Engineer, leading a team of 5.

#### **Projects Worked:**

##### Dropsite Templatization:

- A Generic Dropsite/Mint-Site template where admin can set their NFTs and users can come and mint the NFTs Randomly.
- Performed complete generalization w.r.t probabilities, NFT Categories & random minting.
- Implemented Randomization using Chainlink Verifiable Random Function(VRF).

##### NFT-ES

- Developed smart contracts in Solidity for NFT-ES to trade NFTs.
- Developed Multiple types of Smart contracts to deal with Fungible and Non Fungible tokens.
- Developed ERC20 standard contract to Deposit and withdraw ethers.
- Verified Smart Contracts using Hardhat and Etherscan.

##### Rush49 INDID3RS.io

- Developed ERC1155 Based NFT events ticketing System for International Organisation Rush49.
- Implemented Royalties, Auctions & fixed price reselling for the users.
- Implemented ticket based NFT rewards for VIP members.
- Developed ERC20 standard contract to Deposit and withdraw ethers. • Deployed smart contracts on Polygon Chain.

##### Next-Up

- Created NXT Utility token for platform
- Implemented dynamic Utility tokens deployment & listing for different athletes using hardhat.
- Based on athlete tokens Implemented athlete token based NFT rewards for VIP members.
- Developed ERC20 standard contract to Deposit and withdraw ethers.

##### Orio.io

- Developed A forked Coin(Network) and Crypto Network from Obyte DAG.
- Developed APIs for trading the cryptocurrency and integrated an NFT Marketplace

##### Atica

- A Multichain-Based Dapp for trading Gem Stones and Exchanging various Cryptocurrencies.
- Developed APIs for creating, transacting, and trading crypto tokens.
- Developed and Integrated web3.js APIs for transacting and creating Ethereum, monero, Bitcoin, and USDC wallets.

01/10/2017 – 01/08/2021 United States

### **FULL-STACK MOBILE AND WEBSITE DEVELOPER** DEVOPS TECHNOLOGY

#### **Projects Worked:**

Web3 Network

- Developed Generic Smart Contracts: Created versatile smart contracts to support NFT marketplaces, using Solidity.
- Built NFT Marketplace: Designed and implemented a basic NFT marketplace application within the MERN/MEAN stack.
- Designed ERC1155-Based Dropsite: Developed a Dropsite application based on the ERC1155 standard for efficient NFT distribution.
- Integrated Smart Contracts for Transactions: Seamlessly integrated smart contracts within the MERN/MEAN stack to manage transactions involving digital assets.
- Rigorous Testing and Deployment: Conducted comprehensive testing and deployed the application on the Goerli Testnet using Metamask for verification and validation.

#### DStage

- Developed NFT Marketplace Interface: Created a user-friendly interface for the NFT marketplace using the MERN/MEAN stack.
- Custom Auctions & Royalties Integration: Implemented custom auction functionality and royalties management seamlessly within the marketplace interface.
- Token Contract Compatibility: Ensured compatibility with ERC721 and ERC1155 token standards, optimizing the interface for EVM-compatible chains.
- Deployment and Testing: Successfully deployed and tested the MERN/MEAN stack application for functionality and performance on various platforms, including a self-created Ethereum blockchain network and the Goerli Testnet using Metamask.

## ● EDUCATION AND TRAINING

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01/01/2016 – 23/10/2018 United States

**DOCTOR OF PHILOSOPHY (PHD), COMPUTER ENGINEERING** Carnegie Mellon University

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Website <https://www.cmu.edu/>

## ● LANGUAGE SKILLS

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Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2

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

## ● DIGITAL SKILLS

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Vue.js | Angular | Next.js | TypeScript | react.js | HTML | JavaScript | CSS | Tailwind CSS | Bootstrap | Node.js | Php/Laravel | MongoDB | Python (Django/Flask) | Express.js | React-Native | Flutter (iOS + Android) | Git