


QASIM RAHEEM

Software Engineer | Team Lead | Blockchain Fullstack Developer | Project Manager

 [+923142603936](tel:+923142603936)

 qasimmehmood13936@gmail.com

 qasimraheem.github.io

 Islamabad, Pakistan

| WORK EXPERIENCES

Blockchain Software Engineer

Fornax | 2021 - 2022

- Developed cross-platform crypto wallets using react native.
- Integrated Hierarchical deterministic wallets to support multi-chain
- RBuilt design system using react.
- Implemented config based reusable components.
- Developed REST and GraphQL based API in Nodejs.
- Implemented Real time blockchain data fetching using polygon and etherscan APIs.
- Enhanced user security using biometric based IDs.
- QEnriched transfer, and managing wallet flows using QR.
- Created a fixed supply blockchain network.
- Implemented custom mining algorithms.
- Designed and developed blockchain workers that dumped all the data from blockchain nodes to persistent DB.
- Developed a fully functional explorer for blockchain.
- Spear headed and trained support team for blockchain network.
- Integrated web3 to bridge between the blockchain and applications.
- Reviewed the quality of code and enforced standards for the requested MRs.
- Deployed blockchain nodes on cloud AWS.

Blockchain Engineer

DappsLab | 2020 - 2021

- Developed a Marketplace for smart contracts and DApps.
- Created a platform/tool for developers to create DApps in minutes by using smart contracts form the marketplace.
- Configured solidity compiler to compile smart contracts on runtime with different versions.
- Developed marketplace for smart contracts.
- Created a tool for managing deployed and undeployed DApps.
- Built tooling to built runtime UI using smart contract abi.
- Assisted other team members with their research to find appropriate solutions.

- Implemented multilingual UI based on browser language using i18n.
- Developed aspects-based feedback system which makes it easy to create custom feedback engagements.
- Provided a distributed, multitenant-capable full-text search engine with an HTTP web interface and schema-free JSON documents using Elasticsearch.
- Wrote products documentation and maintaining of documentation for applicable projects.

Solidity Developer (Software Engineer)

Smart Contracts | 2019 - 2022

- Implementation of the ERC standards using Openzeppelin.
- Developed fully custom smart contracts on the requirement of clients.
- Developed lottery Decentralized Application using custom lottery contract using randomization algorithm for choosing the winner.
- Developed ERC721 smart contract where you can buy NFT using ERC20 token.
- Coded research thesis where IOT firmware is distributed, updated and protected using smart contracts.
- Reduced the cost by half when airdropping 520 million tokens using bundled address and meta transactions.
- Wrote a smart contract that is used for airdropping other tokens.
- Wrote a smart contract that is used for airdropping without using owners' gas by implementing claim function with Merkle Proof.
- Merkle-Tree-Bulk-Transfer, Multiple-Tokens-Airdrop, Charity-based-NFTS, Lazy minting, platform or developers commission contracts, minting 10,000 NFTs by generating random images based on layers and storing them and their metadata to ipfs.
- Successful listing of collections on Opensea, rarible and custom NFTs marketplaces.
- Integration of paper checkout to buy NFTs form credit card, crypto currencies, google pay and apple pay.

Lead Software Engineer

Helfer | 2018 - 2019

- Integrated OAuth login and reducing the login time by 2x by using passportjs.
- Designed and developed the User Interfaces.
- Wrote quality documentation, Use cases, User stories, Technical specifications and Wireframing/Prototyping for the product.
- Utilized DBaaS (Mlab) and reduced the development cost.
- Led the design and development of systems and processes to ensure solutions developed for our clients.
- Assisted other team members with their reserach to find appropriate solutions.
- Implemented maps based tagging for events using google maps.
- Utilized AWS S3 for storage solution and heruko for system deployment.
- Developed user timeline like twitter/facebook based on followings and interests.

Backend Developer

BCDApps | 2015 - 2020

As a backend developer I took the responsibility of developing REST APIs for the ongoing projects in BCDApps using Golang, NodeJS, Java, Python and Cpp. Developed Different applications' backend servers, data models, data relations, data flow architectures and server cache management.

Frontend Developer

BCDApps | 2014 - 2018

Learned Developer website with HTML, CSS, CSS3, JavaScript and later hands-on SASS, SCSS, LESS. Developed a lot of fully responsive and pixel-perfect websites from Photoshop, Figma, Adobe XD and Sketch. Also Developed Web-Applications in React Redux, Angular, Java Spring, Svelte and Vue. Integrated lots of React-based UI components like blueprints, Material-UI, material.io, Semantic-UI and Ant Designs.

PROJECTS

Fornax Blockchain

(fornaxcoin.com)

A new Blockchain Network forked from Ethereum and modified to make the coin supply fixed and fast.

- Forked Geth (go-ethereum)
- Designed and developed custom mining and consensus algorithms.
- Integrated new features to make Fornax blockchain more reliable.
- Designed network structure to manage the load and risks, on several nodes on Linode and AWS.
- Managing different nodes (bootnode, public node, mining nodes) and handling load using load balancers.

Golang

Github

Linode

AWS

linus

Geth

Web3

RPC

Fornax Explorer

(watchfornax.com)

Web based Blockchain explorer build for Fornax blockchain. Explorers shows the transactions, accounts, blocks and their details.

- Developed Backend Server to fetch data from mongo DB to the Web Application using REST, Apollo and graphql APIs.
- Wrote a Fast syncing server/worker which sync the blocks from blockchain 1000/1sec.
- Connecting the Sync-worker with blockchain by web sockets which listens and dump the blocks to DB as they generates.
- Involved in complete SDLC.
- Implemented custom week menu manager using dayjs.
- Decreased the development time by 50% by using GraphQL managed service.
- Responsibility of developing the web application responsive.
- Developed complex serverless actions using hasura.
- Utilized AWS Amplify for deployment purposes.
- Utilization of React components with redux, stores and styling in SASS in the best way possible.

[GraphQL](#)[Apollo](#)[Linode](#)[Typescript](#)[Tailwindcss](#)[AWS](#)[Reactjs](#)[HTML5](#)[CSS](#)[SCSS](#)[Github](#)[websockets](#)[web3](#)[rpc](#)[geth](#)

Fornax Mobile Wallet

(fornaxcoin.com)

HD cryptocurrency multichain wallet application.

- Forked Geth (go-ethereum)
- Cross platform mobile application that supports Ethereum, polygon and Fornax.
- Generation of multiple accounts using HD Wallets.
- Responsive for all devices.
- Complete app for receiving, transferring, paying bills, taxes, and manage assets like NFTs and Tokens.

[React native](#)[Web3](#)[typescript](#)[javascript](#)[nodeJs](#)[Geth](#)[Web3](#)[RPC](#)[3rd parties APIs](#)[Redux](#)[websockets](#)[github](#)

Dappslab

(dappslab.tech)

DappsLab is a web based marketplace where developers can upload their solidity smart contract codes to sell to other developers. Other developers buy the smart contract using tokens and then modify and deploy the DApps. Dappslab is not just a marketplace but also a great tool to develop DApps.

- Used graphql and apollo to develop APIs in express node.js server.
- Used mongoose to connect the mongo cloud for database.
- Implemented solc for compiling multiple versions of compilers runtime on server side to validate the solidity contracts.
- Developed interactive form to interact with deployed Dapps.
- Integrated Elastic Search to index data and be searchable when queried.
- Integrated stripe for buying smart contract using credit or debit card.

[Nodejs](#)[Team lead](#)[Websockets](#)[javascript](#)[Elastic Search](#)[Blockchain](#)[Web3](#)[JSON RPC](#)[Couchbase](#)[REST API](#)[MongoDB](#)[Realtime workers](#)[Redis](#)[AWS](#)[Digital ocean](#)[Discord](#)[Reactjs](#)[Redux](#)

Tokenlab

Tokenlab is an integrated system to create tokens and assets on the Expanse.tech Blockchain. It includes the ability to start ICOs with smart contracts designed with time-locked distributions built in to protect investors from funds being dumped on the market. Tokenlab is also the first ICO of Tokenlab utilizing the LAB token that will be tradable and pay out a percentage of all new tokens created by Tokenlab.

- Developed smart contracts and automation scripts using truffle, ganache and nodejs to deploy smart contracts.
- Developed new library using js and web3js to develop helper functions to ease out the web3 related implementations.
- Build scripts using nodejs to automatically deploy new tokens on ethereum and expanse blockchain.
- Designed and developed crypto payment solution for payments.
- Developed and integrated Ethereum and Expanse blockchain mempool workers for payment solution.
- Created test scripts for smart contracts using mocha.
- Developed modules based contract system that supports modular business logic and add-ons.

React native

Web3

typescript

javascript

nodeJs

Geth

Web3

RPC

3rd parties APIs

Redux

websockets

github

Luna Wallet

To store, accept and send exp, you need a wallet. Luna wallet is the cross platform end-user interface for Expanse.

- Created new builds for linux platform
- Assisting other team members with their research to find appropriate solutions.

Linux

Smart contracts

Blockchain

Blockchain node

ABI

Debugging

REST API

SKILLS

Technical

Reactjs/Nextjs/Redux

JavaScript/Angular/Vue

Blockchain/Ethereum/Solidity

Truffle/Ganache/React Native

PostgreSQL/MySQL/MongoDB

Nodejs/Nestjs/Golang

Couchbase/Postgresql

Design and implement database structures

Lead and deliver complex software systems

Professional

Effective communication

Team player

Strong problem solver

Good time management

| EDUCATION

BS in Software Engineering
Riphah International University
2016 - 2020

ICS
Pakistan School, Isatown Bahrain
2014 - 2016

| ACHIEVEMENTS

Member
Devenings

Programming Competition Winner
CUST University(2018)
First Prize
Senior Design Project 2020
President
T.E.N(Technology, Entrepreneurship, Networking) 2018-2019

| LANGUAGES

English (Professional)
Urdu (Native)

| INTERESTS

Hiking
Photography
Travelling

