

Muhammad Saad Qayyum

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Education

BS	National University of Sciences & Technology (NUST)	Islamabad, Pakistan
	Bachelors in Computer Engineering	2017 – 2021

Experience

Roomy Technologies , Full Stack Developer	Islamabad, Pakistan
- Built Boomingo, a digital loyalty platform with Apple Wallet and Google Wallet support - Developed messaging and automated campaigns based on user activity (inactive users, birthdays, visit history) - Implemented QR code-based flow for adding loyalty passes and earning rewards - Built the Roomy Hotels booking backend (roomy.pk) serving the Next.js website and React Native iOS/Android apps, with two-way channel-manager sync and online pre-check-in - Built full-stack system using PHP, MySQL, React, and React Native, plus marketing landing pages for Boomingo, ChowPay, and Chow Loyalty - Worked on ChowPOS, mainly frontend; split the sales-report API into progressively loaded sections and added missing database indexes	July 2023 – present

Moaice Pvt Ltd , Full Stack Web3 Developer	Islamabad, Pakistan
- Developed NFT minting platforms and marketplaces with React/Next.js frontends, Ethereum/Solana smart contracts, and Node.js backends handling metadata management, IPFS uploads, and transaction monitoring - Integrated decentralized exchange SDKs (Uniswap, Raydium) for token swapping and implemented Web3 wallet connectivity using ethers.js and web3.js - Built Flutter mobile applications for ride-sharing platform with dual-sided driver and customer apps using Firebase for real-time tracking and authentication - Created factory management system with Java Swing frontend and SQL database for invoice generation, letterhead printing, and operational tracking	Aug 2022 – June 2023

Troon Technologies , Full Stack Web3 Developer	Islamabad, Pakistan
- Developed NFT minting platforms using React/Next.js with Ethereum and Solana smart contract integration - Built a blockchain game's Rust/Anchor smart contracts on Solana and worked on its Node.js backend for transaction co-signing with authority wallets - Created smart contracts for tokens, NFTs, staking, and airdrops on both chains, with integrated DEX functionality using Uniswap and Raydium SDKs - Implemented comprehensive Web3 integration including wallet connectivity, metadata management, IPFS uploads, and blockchain event monitoring	Nov 2021 – July 2022

Freelance

Fiverr , Freelance Blockchain Developer	Remote
- Completed 85+ orders across DeFi, NFT, and Web3 projects with 4.8/5.0 rating from 61 client reviews - Built NFT platforms including minting sites, marketplaces, and Metaplex Candy Machine implementations on Solana - Developed ERC-20/ERC-721/ERC-1155 token contracts and SPL tokens with custom tokenomics and transfer restrictions	Nov 2021 – present

- Created staking platforms, token swap interfaces, and DeFi protocols integrating with Uniswap and Raydium

Projects

Roomy Hotels - Direct Hotel Booking Platform

- Built the PHP/MySQL booking backend for Roomy's hotel chain (roomy.pk), serving one API to the Next.js website and React Native iOS/Android apps
- Implemented date-range availability by room type, plus booking modifications, cancellations, and room transfers inside transactions with row locks to prevent double-selling
- Built two-way channel-manager sync (Reseliva) that pushes availability to online travel agencies and pulls their reservations into the same booking records
- Built online pre-check-in where guests submit arrival time, guest details, and ID documents before arrival, stored privately and served through expiring signed URLs

Boomingo - Digital Loyalty Platform

- Built a complete digital loyalty system for any customer-facing business that integrates with Apple Wallet and Google Wallet, eliminating the need for physical loyalty cards
- Developed full-stack solution with PHP/MySQL backend handling pass generation, customization, and secure data management, and React frontend providing user-friendly interface for businesses and customers
- Created QR code-based system where customers scan codes at business locations to add loyalty passes to their mobile wallets and earn stamps toward rewards
- Implemented automated campaign engine using cron jobs to target customer segments (inactive users, birthday promotions, visit milestones) with scheduled messaging
- Built React Native mobile app as WebView wrapper with native feature access (camera, wallet APIs) through window.postMessage communication bridge
- Integrated Stripe for web payments and RevenueCat for iOS/Android In-App Purchases, with webhook handling for real-time synchronization across all platforms
- Deployed on AWS EC2 with S3 for static assets, created bash script to automate build process (React compilation, S3 upload, server deployment) while keeping index.html on server for cache control and access management
- Designed MySQL database schema supporting multi-tenant operations, stamp tracking, reward management, subscription billing, and customer analytics
- Traced a scaling bottleneck in pass updates at 100k+ passes (one request rewriting every pass row inside a long transaction) and designed the redesign: a one-row template version, batched background enqueueing, and Redis locks

ChowPOS - Restaurant Point of Sale

- Built and maintained React frontend modules for sales, stock receiving, production workflows, and delivery operations
- Split a single all-in-one sales-report API into per-section APIs loaded progressively, so the priority summary renders first on large datasets
- Optimized the reporting queries underneath, adding missing indexes on columns used for filtering and joins

Mango DeFi - Multi-Chain Token Swap Platform

- Built complete token swap platform with React frontend supporting Base (EVM) and Solana, with Telegram Web3 mini app version for in-app trading
- Developed a Solidity swap router on Base that auto-routes through Uniswap V2/V3 pools and takes a 1% referral fee
- Created Rust smart contracts on Solana using Anchor framework that swap through Raydium CLMM and CPMM pools via CPI, with an on-chain platform fee
- Implemented 5-level referral reward system in Solidity distributing fees across the referral chain (40%, 25%, 15%, 10%, 10%), paid out in MANGO by a Node.js/MySQL service in batches
- Deployed custom SPL Token-2022 with transfer tax, plus a Node.js automation service that withdraws accumulated taxes using an authority wallet

- Integrated frontend with ethers.js for EVM and @solana/web3.js with Anchor for Solana; deployed the React app on AWS S3

AIChainCoin Staking - Solana Token-2022 Staking

- Built a Rust/Anchor staking program for a Token-2022 token with a transfer fee, with per-second reward accrual (15% APY) and a configurable minimum staking period
- Handled Token-2022 transfer fees by reading the mint's fee config, applying the fee active in the current epoch, and staking only the net amount that reaches the vault
- Used account reallocation so a wallet can hold any number of concurrent stakes, with React staker and admin dashboards

Kaiju Cards - NFT Summoning Game

- Built the Rust/Anchor program for summoning on Solana: escrows the player's in-game Gems, creates a program-derived mint, writes Metaplex metadata, and mints the NFT in one transaction
- Required admin and creator co-signatures on every summon so only server-approved summons can mint
- Worked on the Node.js backend with another developer for preparing and co-signing summon transactions

Skills

Frontend: React, Next.js, Angular, React Native, Flutter, TypeScript, JavaScript, HTML/CSS, SCSS, Tailwind

Backend: Node.js, PHP, Express.js, RESTful APIs, MySQL, PostgreSQL, Firebase, MongoDB

Cloud & DevOps: AWS (EC2, ECS, Lambda, RDS, S3, CloudFront), Docker, Bash scripting, Git, CI/CD

Blockchain & Web3: Ethereum, Solana, Solidity, Rust, ethers.js, web3.js, Smart Contracts, IPFS

Integrations: Stripe, RevenueCat, Apple/Google Wallet, Uniswap and Raydium SDKs, Webhooks