

Muhammad Saad Qasim

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PROFESSIONAL SUMMARY

Full Stack Developer and Web3 Engineer with 2+ years of professional experience shipping production applications across fintech, e-commerce, and blockchain domains. Proven track record delivering 9+ projects with 100% on-time completion for foreign clients. Skilled in MERN stack, smart contract development (Solidity/ERC-721/ERC-20), and cloud-native deployment. Currently building at Marfah Technologies while expanding into decentralized application architecture.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Bootstrap
Backend: Node.js, Express.js, NestJS, REST APIs, GraphQL, Socket.io, Prisma ORM
Blockchain & Web3: Solidity, Web3.js, Ethereum, ERC-20, ERC-721 (NFT), Smart Contracts, IPFS, Hardhat
Databases: PostgreSQL, MongoDB, MySQL, Redis
DevOps & Cloud: AWS (EC2, S3), Docker, GitHub Actions, CI/CD Pipelines, Vercel, Linux
Auth & Security: JWT, OAuth 2.0, RBAC, Multi-Factor Authentication (TOTP), Input Sanitization
Integrations: Stripe, PayFast, OpenAI API, Twilio, SendGrid, Google Authenticator

PROFESSIONAL EXPERIENCE

- Web3 Developer Intern** • Dafi Labs, Lahore • Remote June 2026 – August 2026
- Developed and deployed smart contracts on Ethereum mainnet and testnets using Solidity and Hardhat.
 - Contributed to DeFi protocol components including token staking, reward distribution, and on-chain governance modules.
 - Built React + Web3.js frontend interfaces that integrated directly with deployed smart contracts via MetaMask.
 - Collaborated with senior blockchain engineers on contract auditing practices and gas optimization techniques.
- Full Stack Developer** • Marfah Technologies • Remote January 2025 – Present
- Architect and maintain 3 production MERN stack applications serving active users across multiple client verticals.
 - Engineered secure authentication systems using JWT and OAuth 2.0 with role-based access control, reducing unauthorized access incidents to zero.
 - Implemented real-time messaging and notification infrastructure with Socket.io, reducing message delivery latency by 40%.
 - Designed and deployed CI/CD pipelines using GitHub Actions and Docker, cutting deployment time from 45 minutes to under 5 minutes — a 90% reduction.
- Freelance Full Stack Developer** • Self-Employed • Remote November 2022 – Present
- Delivered 9+ end-to-end software projects — e-commerce platforms, analytics dashboards, and fintech tools — with 100% on-time delivery across all engagements.
 - Architected reusable Express.js and GraphQL microservices that reduced client integration time by 35%.
 - Integrated Stripe and PayFast payment gateways and automated transactional messaging via Twilio and SendGrid.
 - Embedded AI-powered features using the OpenAI API including document summarization, content generation, and conversational chatbots.

SELECTED PROJECTS

- ERC-721 NFT Marketplace** — Solidity • React • Web3.js • Hardhat • IPFS • Ethereum
- Built a fully decentralized NFT marketplace enabling minting, listing, buying, and transferring of ERC-721 tokens on Ethereum.
 - Wrote and deployed Solidity smart contracts for NFT minting, ownership transfer, and marketplace escrow logic; tested with Hardhat.
 - Stored NFT metadata on IPFS for censorship-resistant, decentralized asset hosting; integrated MetaMask for wallet-based authentication.
- Decentralized Product Authenticity Tracker** — Solidity • React • Web3.js • Ethereum
- Engineered a trustless supply chain verification system enabling manufacturers to register products on-chain and buyers to verify authenticity without a central authority.
 - Wrote Solidity smart contracts handling product registration, multi-stage ownership transfer, and public on-chain verification.
 - Built a React + Web3.js frontend with zero backend dependency — all data reads directly from the Ethereum network.
- Shariah-Compliant Microfinance Platform** — React • Node.js • MongoDB • AWS S3
- Developed a loan management system for an Islamic finance institution with 3 user roles (admin, loan officer, borrower), each with isolated dashboards and permissions.

- Implemented Murabaha and Ijarah finance models with real-time automated profit and instalment recalculation on every input change.
- Integrated AWS S3 with server-side encryption for secure document storage and built a full audit log for regulatory compliance.

Secure Banking Portal — MERN Stack · TOTP MFA · Chart.js

- Engineered a banking dashboard with TOTP-based MFA using Google Authenticator — enforcing OTP verification on every login session.
- Built real-time transaction charts with date-range filtering and PDF/CSV export using Chart.js.
- Hardened application security with encrypted sessions, HTTP-only cookies, and comprehensive input sanitization; zero sensitive data exposed in client storage.

Car Rental Marketplace — React · Express · TypeScript · PostgreSQL · Prisma

- Built an end-to-end rental platform with live availability checking, automated conflict resolution, and a seamless single-flow booking and payment experience.
- Leveraged Prisma ORM with PostgreSQL for fully type-safe queries, catching critical data-shape bugs at compile time.
- Automated booking confirmations and calendar invites via SendGrid, triggering instantly on successful payment.

EDUCATION

BS Computer Science · COMSATS University Islamabad, Attock Campus 2024 – 2028 (Expected)
CGPA: 3.32 / 4.00 · Relevant Coursework: Data Structures, Algorithms, OOP, Database Systems, Software Engineering

ACHIEVEMENTS

- Web Development Hackathon Winner — COMSATS CodeFusion Society; placed 1st in web development track competing campus-wide.
- Open Source Contributor — Bug fix accepted and merged into Lottie-Web, an animation library with millions of downloads.
- GitHub Developer Program Member (Pro).
- Active member, Google Developers Group On Campus — COMSATS Islamabad, focused on full stack and Web3 development.
- 100% on-time delivery across all 9+ freelance software engagements.