

Mujtaba Shamas

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Lahore, PPB

Summary

I'm a Full Stack AI Developer and Systems Architect with 10+ years building complex systems across FinTech, healthcare, cybersecurity, HR tech, e-commerce, and blockchain. I specialize in scalable SaaS platforms, AI agents, automation workflows, and microservice architectures. I've led engineering efforts, guided product delivery end-to-end, and shipped mission-critical systems from MVP to enterprise scale. My focus is solving hard technical problems with clear architecture and dependable execution.

Skills

Full-Stack Development, AI Integration, DevOps, Solution Architecture, Microservices, DApps, Web3, Smart Contracts, JavaScript, TypeScript, Python, Solidity, Solana, Rust, Node.js, Express.js, React.js, Next.js, REST, GraphQL, NATS, uWebSockets, Firebase, MongoDB, PostgreSQL, MySQL, Redis, Docker, Kubernetes, AWS, Google Cloud Platform, Anchor, Hardhat, Truffle, CI/CD, Cloud Infrastructure

Experience

Founder / Lead AI Full-Stack Engineer

Aiovox · Lahore, Pakistan

01/2026 – Present

Founded and lead **AIOVIX**, an AI systems and product engineering company building production-grade AI workflows, SaaS platforms, voice agents, document intelligence systems, RAG assistants, and automation tools for clients.

- Built internal products including **AIOVIX Business OS**, **AIRA Voice CRM**, and **AIOVIX Anima**, covering CRM automation, voice AI, finance, health, productivity, knowledge base, and RAG workflows.
- Delivered client-facing solutions across **AI SaaS MVPs**, **healthcare operations software**, **AI voice agents**, **document AI/OCR systems**, **RAG knowledge assistants**, **CRM automation**, and **custom business dashboards**.
- Developed AI voice systems for **inbound/outbound calls**, **patient intake**, **lead qualification**, **appointment booking**, **missed-call recovery**, **WhatsApp flows**, **call transcripts**, and **human handoff queues**.
- Built document and RAG products for **PDF processing**, **invoice/form extraction**, **contract review**, **RFP parsing**, **source-grounded search**, **structured outputs**, **citations**, and **review workflows**.
- Engineered full-stack SaaS platforms with **Next.js**, **React**, **Node.js**, **Express**, **TypeORM**, **PostgreSQL**, **OpenAI**, **Stripe**, **Google APIs**, **Twilio**, **ElevenLabs**, **AWS/RDS**, and **file storage integrations**.
- Designed backend patterns for **LLM orchestration**, **schema validation**, **workflow automation**, **CRM sync**, **role-based access**, **analytics**, **billing**, **notifications**, and **production deployments**.
- Managed product strategy, architecture, client proposals, delivery planning, CI/CD, deployment, support, and GTM assets for AI products and automation services.

Lead Full-Stack / Web3 Engineer

Celerium Ltd · British Virgin Islands

01/2025 – 12/2025

- Developed core features for **Ooga.gg**, a Solana DeFi trading platform with **\$150K+ funding**, focused on token discovery, trading execution, and market analytics.
- Built trading interfaces for **market**, **limit**, and **DCA orders**, including buy/sell flows, wallet balances, slippage controls, priority fees, and MEV protection settings.
- Integrated Solana trading infrastructure across **Jupiter**, **Raydium**, **Pump.fun**, **PumpSwap**, **Meteora**, **Moonshot**, **Orca**, and other liquidity sources.
- Implemented real-time token pages with **TradingView-style charts**, **live transactions**, **holders**, **top traders**, **order history**, **market cap**, **volume**, and **liquidity metrics**.

- Contributed to advanced token scanner modules including **bundle detection, whale wallets, fresh wallets, early buyers, KOL/tracked wallets, dev history, similar tokens, and holder risk analysis.**
- Built finance-focused portfolio features for **tracked wallets, trade history, positions, P&L-style analytics, watchlists, and token performance monitoring.**
- Worked on Solana smart contract infrastructure for **fee management, multisig governance, treasury vaults, cashback, referral, giveaway, and safety reserve distribution.**
- Improved backend services for real-time token data, WebSocket updates, swap execution, scanner updates, portfolio tracking, wallet authentication, and leaderboard/community features.
- Added social trading features including **clans, leaderboards, messaging/community flows, watchlists, and trader activity tracking.**

Lead Full Stack Engineer

Unikorn Media Limited · Hong Kong

08/2023 – 08/2024

Led end-to-end development of multiple blockchain MVPs, owning architecture across frontend, backend, and smart contract layers.

- Built and deployed secure **Solidity smart contracts** with full integration into production-ready Web3 applications.
- Developed high-performance dApp frontends using **React.js, Next.js, Node.js, Web3.js, and ethers.js.**
- Designed complete Web3 workflows including wallet connection, contract reads/writes, transaction handling, event tracking, and user dashboards.
- Delivered blockchain MVPs across DAO, DeFi, NFT, token, staking, and marketplace-style use cases.
- Coordinated developers, designers, and product stakeholders to unblock delivery and improve project execution.
- Shipped features under tight deadlines while maintaining clean architecture, reusable components, and scalable codebases.

Web3 Developer

Unikorn Media Limited · Hong Kong

06/2022 – 08/2023

Worked part-time with a Hong Kong-based Web3 team, building dApps, DAO tooling, and blockchain prototypes across Ethereum-compatible ecosystems.

- Developed advanced dApps using **React.js, Next.js, Node.js,** and smart contract integrations.
- Implemented **MetaMask, WalletConnect, and multi-wallet support** for secure wallet connection and transaction flows.
- Built transaction-safe smart contract interactions using **ethers.js, Web3.js, Moralis, and Infura.**
- Developed DAO-based features including proposal flows, voting logic, treasury interactions, and member access controls.
- Used **Solidity and Hardhat** to build, test, and integrate smart contracts with frontend applications.
- Shipped Web3 prototypes covering token interactions, NFT flows, staking-style mechanics, and decentralized governance

Founding Member - Full Stack Engineer

OffS3c LLC · Delaware, OH

11/2019 – 08/2023

Designed and developed multiple SaaS and enterprise products across the **MERN stack**, including a **VPN application, Revertefy backup/recovery platform, and TaxDaari tax management app.**

- Led MVP planning, system architecture, and full-stack development for multiple products, helping teams move from concept to launch quickly.
- Built scalable backend systems with **Node.js, REST APIs, background workers, and NATS-based messaging** for distributed service communication.
- Developed product features across authentication, subscriptions, backups, user management, dashboards, reporting, and admin workflows.
- Optimized data models and query performance across **MongoDB, MySQL, and PostgreSQL** for high-volume application use cases.
- Integrated third-party services including **Stripe, Auth0, payment flows, authentication providers, and external business APIs.**
- Managed the full development lifecycle from design and development to testing, CI/CD, deployment, monitoring, and production support.

Backend Lead Developer

AllyRight · Torrance, CA

06/2020 – 06/2023

Led backend engineering for **AllyRight Auditor**, an AI-driven accessibility and compliance platform used to audit websites and documents against **WCAG, Section 508, PDF/UA, privacy, security, SEO, and performance standards**.

- Architected and maintained a distributed backend system of **100+ microservices** powering scans, reports, dashboards, issue tracking, and remediation workflows.
- Built automated audit pipelines for **WCAG 2.1 AA, Section 508, PDF/UA-1, GDPR/CCPA, security, Core Web Vitals, and SEO compliance**.
- Engineered AI-assisted analysis and remediation workflows for accessibility issues, document structure, reading order, alt text, forms, tables, security headers, and privacy gaps.
- Developed enterprise reporting systems with audit trails, historical trends, risk scoring, certification evidence, and developer-ready remediation guidance.
- Delivered backend features for scan orchestration, bug tracking, task management, analytics, automated testing, and compliance workflow automation.

Freelancer (Developer / Cyber Security)

Self Employed · Lahore, PPB

08/2017 – 08/2019

- Built full-stack applications using MERN, tailored to client requirements across various industries.
- Performed penetration testing and vulnerability assessments using Burp Suite, Nmap, Metasploit, and scripts.
- Specialized in OWASP Top 10 mitigation, secure architecture, and ethical hacking.
- Delivered projects through Agile workflows, ensuring rapid iteration and consistent client satisfaction.

Education

Bachelor of Computer Science

University of Central Punjab · Lahore

07/2021

Certificates

Certified Enterprise Blockchain Architect (CEBA), Certified Web 3.0 Professional (CW3P)

Awards

Certificate of Appreciation from Intel, Listed in Upwork Hall Of Fame – Bugcrowd, Listed in Gogo's Hall Of Fame – Bugcrowd, Listed in Constant Contact's Hall Of Fame – Bugcrowd

Links

- **Portfolio:** <https://www.muhtabashamas.com>
- **Linkedin:** <https://www.linkedin.com/in/muhtabashamas>
- **Github:** <https://github.com/muhtabashamas>
- **Upwork:** <https://www.upwork.com/freelancers/~01c5f7d13c6f0d781a>

Languages

English, Urdu