

Muhammed Waqar

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SUMMARY

Senior Full-Stack Developer with 7+ years of experience designing and scaling web, mobile, and blockchain applications across fintech, healthcare, and real estate. I specialize in building secure, high-performance platforms that support large-scale user bases (500k+ active users) and deliver measurable business impact.

EXPERIENCE

tappengine, Senior Software Engineer

Apr 2025 - Present

Led the end-to-end development of OLAB, Yadr's flagship platform, architecting a scalable visual canvas (similar to Draw.io) with React Flow and a powerful Notion-style database system powered by TanStack Table.

Designed and implemented advanced database features including custom column types, rollups, relations, inline editing, and seamless real-time syncing across canvas and document views.

Built a custom document editor using Tiptap with support for multi-page editing, embedded tables/canvases, import/export, and automated PDF generation, enhancing collaboration and usability.

Integrated PostHog for behavioral analytics, enabling data-driven product decisions and continuous UX optimization.

Engineered the frontend and backend architecture using Next.js, Tailwind CSS, shadcn/ui, and Supabase, ensuring high performance, scalability, and maintainability.

Introduced AI-powered automation with LangChain and Claude, enabling natural language workflows and intelligent structure generation for canvases and tables.

Developed an internal admin platform to manage multi-site content (blogs, videos, images) efficiently, reducing operational overhead.

Delivered multiple responsive, performance-optimized static websites for clients using Next.js, aligned with accessibility and SEO best practices.

Yadr | ###, Software Engineering Lead

Nov 2024 - Jul 2025

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Zogi Labs, Senior Software Engineer / Blockchain Developer

Feb 2024 - Oct 2024

Led the development of a pioneering Web3 gaming platform, integrating WebGL technology with the Bitcoin blockchain to enable NFT-based reward systems tied to gameplay achievements.

Architected and deployed a full Bitcoin Ordinals minting infrastructure, ensuring secure, scalable, and efficient reward distribution for thousands of players.

Built a comprehensive admin dashboard for NFT lifecycle management, empowering real-time monitoring, distribution, and control of digital assets.

Engineered backend systems for Bitcoin Ordinals transaction processing and wallet integration, ensuring reliability and security at scale.

Enhanced the platform with generative art features, blockchain wallet connectivity, and NFT interoperability, expanding gameplay possibilities and user engagement.

Optimized the Zogi Labs website, delivering 40% faster load times and measurable improvements in user experience metrics.

Implemented secure authentication and authorization systems to safeguard user assets and maintain platform integrity.
Designed a scalable architecture capable of supporting high-traffic gaming sessions and large-scale NFT minting operations.

*Pixelpk Technologies, **Senior Software Engineer Team Lead***

Sep 2023 - Aug 2024

Acted as technical lead for mission-critical web applications, driving adoption of serverless and cloud-native solutions to improve scalability and reduce infrastructure costs.

Built Peplug from the ground up using Next.js and AWS serverless architecture, achieving a 40% reduction in operational costs through optimized infrastructure.

Rescued and delivered the Mindshift project by stabilizing and completing an inherited unfinished codebase, releasing a production-ready solution under a tight deadline.

Developed the group consultation feature for Attend Anywhere using AWS Chime SDK, now actively deployed across the UK's National Health Service (NHS) to support secure telehealth consultations.

Designed and deployed microservices architecture with AWS Lambda, DynamoDB, and Node.js, ensuring seamless scalability during high-traffic periods.

Implemented CI/CD pipelines, reducing deployment times by 65% while maintaining rigorous code quality and test coverage.

*Utopia Homes: America's 1st Rent to Own Exchange, **Senior Software Engineer***

Oct 2022 - Nov 2023

Operated as a senior developer in a fast-paced startup, leading the full development lifecycle for a real estate technology platform focused on democratizing home ownership across the US.

Engineered a property transaction platform capable of handling thousands of listings with advanced search and filtering, enabling users to efficiently find and evaluate properties.

Built scalable backend systems to process large volumes of real estate data and manage users at scale while maintaining performance and reliability.

Designed intuitive user interfaces that streamlined the home-buying journey, resulting in a 45% increase in user engagement.

Integrated secure payment processing and document management, ensuring compliance and trust throughout property transactions.

Balanced frontend and backend responsibilities in a resource-constrained environment, ensuring consistent delivery and platform stability.

Created a data analytics dashboard to provide actionable insights on market trends and user behavior, supporting both product decisions and business growth.

*KryptoMind LLC, **Senior Full Stack Engineer***

Oct 2021 - Sep 2023

Led multiple blockchain-focused teams, guiding architecture decisions and mentoring junior engineers while delivering secure, enterprise-grade solutions across Ethereum, Binance Smart Chain, and Bitcoin networks.

Architected and scaled Cryptokara, a decentralized wallet app serving 500K+ active users, featuring wallet restoration, transaction history, and custom token support — ensuring both accessibility and reliability for a massive user base.

Developed CQR Vault, a next-generation mobile wallet for crypto and commodity tokens (gold/silver), complete with real-time pricing updates and push notifications to keep users informed and engaged.

Directed end-to-end product lifecycles — from client consultation through deployment — ensuring timely delivery of high-complexity blockchain projects without compromising quality.

Implemented and audited smart contracts, improving security and cutting gas fees by 30%, directly reducing costs for end users.

*Coding Pixel, **Full Stack Engineer***

Apr 2020 - Oct 2021

Specialized in building cross-platform mobile applications with React Native, delivering native-level performance and seamless user experiences on both iOS and Android.

Developed Sports Saver from concept to launch — enabling users to discover and book local sports facilities with integrated payments, simplifying access to recreational activities.

Built Siteseekr, a location-based service app with real-time mapping and custom filtering algorithms, enhancing local discovery and personalization.

Engineered Clout, a social media analytics platform that aggregates data from multiple networks to provide actionable insights on engagement and growth.

Created gWallet, a secure digital payment app featuring biometric authentication and full transaction history management to strengthen trust and usability.

Established reusable component libraries, accelerating development cycles and reducing delivery times across projects by 35%.

Ensured cross-platform consistency across iOS and Android, maintaining high performance and a unified user experience.

EDUCATION

University of the Punjab

SKILLS

Software Industry • Software Systems Engineering • MERN Stack