Asad Waleed

SENIOR SOFTWARE ARCHITECT

Islamabad, Pakistan | 0303 509 3733 | asadwaleed93@gmail.com | linkedin.com/in/asadwaleed
github.com/asad293 | asadwaleed.com

PERSONAL PROFILE

Software Architect with 10+ years of experience designing, building and evolving backend systems for real users in production. Strong systems thinking across APIs, data pipelines, multi-tenant platforms and cloud infrastructure, with a focus on scalability, failure modes and long-term maintainability. Experienced in re-architecting monoliths into modular services, building new systems from scratch, supporting live platforms, and mentoring developers through design discussions and code reviews. Uses AI-assisted development tools (Claude Code, ChatGPT/Codex, Cursor) daily to improve productivity and code quality. Comfortable working autonomously and making high-impact technical decisions.

WORK EXPERIENCE

Head of Technology **Mar 2020 – Jun 2026**
Quantum Skye Technologies, Islamabad

- Designed and implemented ETL pipelines, REST APIs, webhooks and GraphQL data models that unified data from 5+ source systems into scalable, production SaaS platforms.
- Built and launched an AI-assisted property valuation platform (Reimeter) on automated data pipelines, consolidating fragmented real-estate datasets and delivering near real-time pricing.
- Architected multi-tenant SaaS systems with role-based access control and secure authentication patterns across customer-facing products.
- Reduced frontend data load by 25% by designing GraphQL schemas and customer data models supporting segmentation, lifecycle tracking, event-driven workflows and role-based experiences.
- Built and operated Terraform-managed GCP infrastructure for a multi-tenant conversation and sales platform (Revorex AI).
- Led technical discovery and architecture workshops, evaluated emerging tools, defined implementation strategies and aligned product, engineering and client stakeholders, reducing project risk and improving delivery predictability.
- Mentored 6 developers on scalable application architecture, SQL optimization, code review processes and AI-assisted coding practices.
- Delivered production-ready foundations for engineering teams, and shipped SaaS applications up to 40% faster by combining AI-assisted workflows with React, Next.js, Node.js, TypeScript and PostgreSQL.
- Created reusable component systems that increased development velocity across multiple enterprise engagements.

Full Stack Developer **Aug 2016 – Mar 2020**
Phlox Solutions

- Re-architected monolithic applications into modular micro-services supporting CRM integrations, customer lifecycle management and real-time communication, reducing complexity and improving scalability.
- Built REST APIs, webhooks, third-party connectors and event-driven backend services supporting integrations across multiple enterprise systems.
- Improved application reliability by 35% through automated testing, CI/CD pipelines and AI-assisted development workflows.
- Doubled product delivery speed by developing cross-platform SaaS applications in React, React Native and Node.js, working directly with stakeholders.
- Wrote advanced SQL queries and designed customer data models supporting reporting and data-driven product decisions.
- Partnered with product managers and designers to turn business requirements into working prototypes, validating concepts before full-scale implementation.

Android Developer **Oct 2015 – Aug 2016**
UDNA

- Contributed to decomposing a monolithic mobile application into reusable modular components, enabling faster feature delivery and easier maintenance.

CORE ARCHITECTURE & SKILLS

- **Architecture and design:** Distributed and event-driven systems, multi-tenant architecture, API design (REST, GraphQL, webhooks, WebSockets), modular services, RBAC, authentication (JWT, OAuth 2.0, Passport.js), performance and scalability trade-offs
- **Languages:** TypeScript, JavaScript, Python (Flask / Django), PHP/Laravel, SQL
- **Backend and APIs:** Node.js, Nest.js, Express.js, Hono.js, GraphQL, REST APIs, JSON/XML integrations and webhooks, WebSockets, third-party service integrations, JWT / OAuth2.0, Passport.js, event-driven services, multi-tenant architecture, RBAC
- **Frontend:** React, Next.js, hooks, reusable component design, Tailwind CSS, HTML5, CSS3/SASS, state management (Redux Toolkit / Zustand / Context API), React Query, Shadcn UI, Material-UI, Chart.js
- **AI / LLM Engineering:** RAG pipelines, LangGraph (agentic workflows), LLM providers (OpenAI, Anthropic), embeddings, Pinecone, pgvector
- **Maps and Geospatial:** Mapbox (GL JS), Google Maps API, Leaflet
- **Mobile:** React Native, Expo / CLI, Cross-platform iOS and Android apps, Real-time features with WebSockets, Native module concepts, iOS and Android build configuration, Firebase (Crashlytics, Analytics, push notifications via FCM), App Store / Google Play publishing
- **Data and cloud:** PostgreSQL, MySQL, MongoDB, Firestore, Supabase, SQL optimization, Linux, API gateway, AWS (EC2, S3, RDS, Lambda), GCP, Docker, Kubernetes, ETL pipelines, Terraform (working exposure)
- **Testing:** Jest, Vitest, Supertest, Cypress, Playwright, React Native Testing Library, automated testing in CI
- **Agentic AI tools:** Claude code, ChatGPT/Codex, Cursor
- **Practices:** Git and pull-request workflows, code reviews, technical mentorship, Agile/Scrum, CI/CD, debugging and performance profiling

EDUCATION

BS Computer Science
FAST NUCES, Islamabad
Graduated 2015

KEY SYSTEMS

Revorex AI
Multi-tenant SaaS for managing conversations and sales; AI Employee, customer dashboard and Terraform-managed GCP infrastructure.
https://revorex.ai

Mypher (multi-tenant communication platform)
Architected a multi-tenant real-time messaging system with wallet-based auth and complex data modelling across user, asset and transaction domains, using GraphQL and WebSockets with a React Native client.
https://play.google.com/store/apps/details?id=com.app.mypher&hl=en

Mindbuilding (meditation and audio learning platform)
Full-stack content delivery platform (React Native + Node.js) with a streaming audio pipeline, user-state persistence and a CMS-backed content feed, optimised for low-latency delivery.
https://play.google.com/store/apps/details?id=com.mindbuildingapp&hl=en
https://apps.apple.com/de/app/mindbuilding/id1529174193

Reimeter (AI-powered property intelligence platform)
Built and launched an AI-assisted property valuation platform that consolidated fragmented real-estate datasets into a unified SaaS dashboard, giving near real-time pricing through automated data pipelines.

CERTIFICATES

AWS Cloud Solutions Architect Professional Certificate
AWS

Google AI Professional Certificate
Google

Claude Code in Action
Anthropic