

ALI HAMZA

SOFTWARE ENGINEER — BACKEND & SAAS

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• EXPERIENCE

Software Engineer | Comverse Media, Lahore *Apr 2026 – Present*

- Own performance engineering, security monitoring, and backend upkeep across a network of 21 international publisher and media platforms.
- Rolled out caching strategy, script deferral, and layout optimizations at scale, landing perfect desktop and mobile performance-audit scores.

Full-Stack WordPress Developer | X2 Technologies (with Tech Process LLC) *Sep 2025 – Jan 2026*

- Developed backend logic, filtering, and routing for usalocalbusinesses.com, a directory platform with custom search and user dashboards.
- Constructed and scaled a programmatic routing framework generating directory and service sub-pages at volume.
- Led legacy security remediation — isolated and removed malicious file injections via FTP/SFTP to restore platform stability.

Freelance & Independent Projects | Self-employed *Ongoing*

- Architect and deliver full-stack SaaS solutions, managing technical scoping, database design, and end-to-end deployment.
- Provide consultancy for independent businesses: site infrastructure, hosting migrations, and performance-bottleneck resolution for high-traffic platforms.

Web Developer | Lineup Digital *Mar 2023 – Jan 2025*

- Delivered responsive websites from mockups; wrote custom PHP functions and lightweight themes instead of relying on heavy page builders.
- Tracked down and fixed plugin conflicts, styling bugs, and performance slowdowns; collaborated with design teams through Git.

• PROJECTS

Voxis — Multi-Tenant Voice Dialer & Lead Intelligence Platform

- Architected a multi-tenant voice-automation platform (Final Year Project) using Django, Angular, and three Go microservices, achieving sub-400ms end-to-end voice latency.
- Integrated Twilio/Telnyx telephony with a custom WebRTC softphone, enabling bidirectional SMS, call logging, and automated routing for USA and Pakistan numbers.
- Created a 3-tier lead discovery engine (Playwright, Go-based scraper, Groq AI) and an AI-powered site auditor for continuous technical SEO and performance insights.
- Implemented a human-to-AI conversational voice pipeline (Deepgram STT, Groq LLM, ElevenLabs TTS) with real-time BANT qualification and barge-in handling, backed by an async task layer (Celery, PostgreSQL, Redis).
- Deployed as a Docker-orchestrated stack on AWS EC2, with GitHub Actions handling CI/CD end-to-end.

Voiceovers Digital — Production-Grade TTS SaaS

- Shipped a hyper-realistic TTS platform featuring a high-performance Python/Go ONNX-based microservice and a Cloudflare Workers backend.
- Designed a React Studio dashboard (Astro/React) allowing creators to convert 60–120 minute scripts into 24kHz WAV narration masters.
- Engineered a 54-voice catalog using a consolidated ONNX-based voice vector system for optimized I/O and runtime speed.
- Set up a serverless coordinator (Cloudflare Workers + D1 SQLite) for billing, authentication, and job queue management.

• SUMMARY

Software engineer focused on backend systems and SaaS product architecture. Built Voxis, a multi-tenant voice-automation platform with a sub-400ms real-time pipeline, and Voiceovers Digital, a long-form AI narration SaaS. Shipped a low-latency Go microservice on Google Cloud Run and an open-source WordPress plugin with its own Astro marketing site. Comfortable owning a project end to end — architecture, backend logic, API design, containerization, and deployment — and increasingly works alongside AI coding agents to speed up implementation while keeping design decisions, code review, and system architecture in his own hands.

• EDUCATION

B.S. Information Engineering Technology
University of Lahore

Oct 2023 – Oct 2027 · CGPA 3.47 / 10.00

ICS — BISE Lahore
2020 – 2022

Matriculation — BISE Lahore
GPA A+ / 4.0

• SKILLS

Languages & Frameworks

Go · Python (Django) · JavaScript (ES6+) · PHP

Frontend & Architecture

React · Angular · Astro · Tailwind CSS

Systems & APIs

REST APIs · Microservices · WebRTC · Multi-tenant SaaS

Data

PostgreSQL · MySQL · Redis · Celery

Infrastructure

Docker · AWS (EC2/S3) · Google Cloud Run · Cloudflare Workers · Jenkins · SonarQube · CI/CD

• CERTIFICATIONS

The Full Stack — Meta
Intro to Android Dev — Meta
AI For Everyone — DeepLearning.AI
Cybersecurity Essentials — IBM
Basics of Python — UniAthena
WordPress & Freelancing — DigiSkills

• AWARDS

Certificate of Recognition — QDCAP (Qubit Dynamics)
Certificate of Achievement — Art & Culture

Cyphex Mail — *Agency-Focused Multi-Tenant Email Platform*

- ▶ Launched a production-grade email platform with a Next.js web app, React Native mobile client, and edge-deployed Cloudflare Workers for routing.
- ▶ Added lifecycle features including AI-assisted reply drafting, mail merge campaigns, follow-up sequences, and real-time open/click tracking.
- ▶ Rolled out real-time team chat, presence detection, and instant notifications on custom WebSocket infrastructure; integrated TOTP 2FA, SPF/DKIM/DMARC parsing, and AES-256-GCM encryption.

Cyphex Image Hunter — *Open-Source WordPress Plugin + Marketing Site*

- ▶ Published a free WordPress media-management plugin (stock search, local compression, WebP/AVIF, AI alt text) with 1,114+ downloads.
- ▶ Designed and built the plugin's Astro marketing site, including feature pages, use cases, and a documentation-style guide.

AI Pocket Mind — *Multi-Modal AI Assistant App*

- ▶ Designed a Dual AI Core supporting cloud APIs (OpenAI, Groq, Mistral) and local private processing via a custom Desktop Bridge, with biometric security, SQLite-backed local history, and a modular RAG architecture.

AssetPacker.ai — *Script-to-Media Engine*

- ▶ Developed a client-side, BYOAPI engine converting text prompts into curated, voiceover-ready video asset bundles via LLM-driven scene segmentation, with a media curation pipeline parallel-searching Pexels and Pixabay by LLM-based ranking.

Workshop 3.0, UOL

Certificate of Appreciation — Founders Meetup 2025, Brain-Creatives

• **FIND ME ONLINE**

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