

Ali Sher

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PROFESSIONAL SUMMARY

Software Engineer building full-stack applications, AI systems, developer tooling, and privacy-first desktop software with TypeScript, Python, React, Next.js, Node.js, and PostgreSQL. Experienced in REST/SSE APIs, LLM and RAG integrations, dependency analysis, multimedia pipelines, testing, automation, and open-source software.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, SQL, HTML5, CSS3

Frontend: Next.js, React.js, React 19, Tailwind CSS, Framer Motion, Three.js, Vite

Backend: Node.js, Express.js, FastAPI, Quart, REST APIs, SSE, Async Programming

Databases & ORM: PostgreSQL, Supabase, MongoDB, Prisma, SQLite

AI & ML: OpenAI API, Anthropic Claude API, Google Gemini API, Ollama, LLM Integration, RAG, Whisper, Piper, Kokoro

Developer Tools: Git, GitHub, Docker, Vercel, Postman, pnpm, npm, Vitest, Pytest, tsup

Core Concepts: Full-Stack Development, SaaS Development, API Design, Dependency Analysis, CI/CD, Database Design, Authentication, Clean Architecture, Offline-First Systems

PROJECTS

Friday — *Python, Quart, React 19, TypeScript, Three.js, Vite, Ollama, RAG* 2026

- Built an open-source desktop AI assistant with local memory, tool calling, computer control, voice, vision, automations, plugins, and a 3D reactive interface.
- Architected React 19 + Three.js over Python Quart with REST/SSE, three memory engines, local RAG, and a knowledge graph; shipped 270+ Python tests and 107 Vitest tests.

Ripple — *TypeScript, Node.js, pnpm, tsup, Vitest, JSON Schema* 2026

- Created and published a CLI for TypeScript/JavaScript dependency impact analysis using reverse import-graph traversal, seven-signal risk scoring, cycle detection, and machine-readable JSON reports.
- Added Git-aware CI change-set gating for HIGH/CRITICAL risk plus Mermaid, DOT, and HTML graph exports; designed for deterministic, offline analysis.

Simpaudio — *Python, Piper, Kokoro, Whisper, Tkinter, SSML* 2026

- Built an offline Windows voice studio with 40+ voices across 8 languages, voice blending, audiobook generation, speech-to-text, SRT export, and visual SSML editing.
- Integrated Piper, Kokoro, and faster-whisper with local model caching so user content remains on-device after initial model downloads.

Shortube — *Python, FastAPI, FFmpeg, LLMs, REST APIs* 2026

- Built an AI Shorts automation platform that converts prompts into videos through script, storyboard, voice, media-processing, and rendering stages using interchangeable AI providers.

Corun — *Next.js, TypeScript, Tailwind CSS, Clerk, Supabase* 2026

- Developed a browser game for developers with authentication, progress tracking, reusable UI components, responsive design, and Vercel deployment.

EXPERIENCE

Independent Software Engineer 2023 – Present

Self-Employed

Remote

- Designed and developed full-stack applications and AI-powered products using Next.js, TypeScript, Node.js, Python, PostgreSQL, and REST/SSE APIs.
- Built secure authentication flows, responsive dashboards, reusable backend services, automation pipelines, and production deployments on Vercel and Docker.
- Developed and maintained open-source software spanning desktop AI, developer tooling, local AI, multimedia processing, and dependency analysis.

EDUCATION

Government Degree Boys College
Intermediate in Computer Science (ICS)

Karachi, Pakistan
Expected Graduation: 2027

Hazrat Shah Jahangir School
Matriculation (Computer Science)

Karachi, Pakistan
Completed