

MUHAMMAD SHOAIB AMIN

INDEPENDENT SOFTWARE ENGINEER

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Independent software engineer who ships production end-to-end — solo. Seven+ years scaling fintech MVPs and enterprise backends; now contracting on AI-integrated SaaS and consumer products. I deliver finished MVPs in 2–3 months across FastAPI, LLM agents, React Native, and the full DevOps stack underneath. No prototypes, no hand-offs.

AREA OF EXPERTISE

Contract Engineering	AI & LLM Integration	MVP & MMP Delivery
Backend Systems & APIs	Web Scraping & Pipelines	DevOps & Production Infra

KEY ACHIEVEMENTS

- **Production Ownership.** Architect and operate multiple live production services end-to-end (FastAPI, Postgres/SQLite, Nginx, systemd) with zero downtime over 6+ months.
- **AI Sales Agent.** Built Groq-powered WhatsApp auto-responder with conversation memory, summarization, and persona-driven prompts — automating outreach to 4,500+ leads end-to-end.
- **Server Optimization.** Implemented advanced optimization techniques to 5× server speed for the user authorization process in backend systems.
- **Anti-Bot Scraping Infrastructure.** Built yt-dlp + proxy-rotation scraping infra across YouTube, TikTok, Instagram, Facebook, and X that survives data-center IP blocks at scale, feeding downstream AI content pipelines.

PROFESSIONAL EXPERIENCE

Independent Software Engineer — Contract Consulting Aug 2025 – Present

- Ship full-stack production services solo for clients across fintech, consumer SaaS, and media — FastAPI, Postgres/SQLite, Stripe, Nginx, systemd, Let's Encrypt. Multiple converter suites, content sites, and job boards in active production.
- Built a 4,500+ record lead-generation pipeline end-to-end: Google search → BeautifulSoup scraping → auto-generated PDF audit reports → Groq LLM-driven WhatsApp outreach (Baileys) with conversation memory and summarization.
- Engineered a cross-platform social-content aggregator (YouTube, TikTok, Instagram, Facebook, X) on FastAPI + Postgres + Firebase Auth + Cloudflare R2 — with anti-bot yt-dlp infrastructure surviving data-center IP blocks.

Lead Technical Role — Wefi (Fintech) Aug 2024 – Jul 2025

- Led MVP delivery in Python Django + machine learning + React Native, shipping to production in 3 months.
- Rebuilt DevOps pipelines, cutting deployment time in half and removing the manual release bottleneck.

Full Stack Engineer — ReComune May 2023 – Jul 2024

- Shipped React Native mobile MVP in 2 months; cut backend response times 30% and integrated AI services into core product flows.
- Owned DevOps: managed EC2 fleet, automated deployments, maintained 99.9% uptime.

Senior Software Engineer — ServionZero Mar 2022 – May 2023

- Delivered 3 product architectures from scratch within a single year, including a UK product launch; introduced a centralized cryptocurrency system streamlining transactions across products.

Senior Software Engineer — SpireTech (Fintech) Apr 2020 – Mar 2022

- Implemented core fintech modules (audit logs, policy management, savings products) for a commercial launch; built microservices on Docker, Kubernetes, and Helm — cutting deployment time 40%.

SKILLS

- **Backend / Frontend:** Python (FastAPI, Django), Node.js (Express, NestJS), REST, GraphQL · React, React Native, Next.js, PWA
- **Data:** PostgreSQL, MongoDB, Redis · SQLAlchemy + Alembic, RabbitMQ
- **AI / LLM:** Groq, OpenAI SDK, prompt engineering, conversation memory & summarization, custom agent personas
- **Infra / DevOps:** AWS (EC2, S3), Cloudflare R2, Firebase, Docker, Kubernetes, Nginx, systemd, Let's Encrypt
- **Scraping / Automation:** yt-dlp, Playwright, BeautifulSoup, Baileys (WhatsApp Web), proxy rotation, anti-bot · Stripe, Firebase Auth, JWT, Bash, Linux · Leadership, Solo Shipping

EDUCATION

Masters in Data Science, NED University of Engineering & Technology Sep 2021 – Oct 2023

LANGUAGES

English — professional working proficiency · Urdu — native