

MUHAMMAD JAWAD

Senior Software Engineer | AI-Native Full-Stack

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Open to remote roles in AU, UK, EU, US, CA and SA. Comfortable with distributed teams and overlapping AEST hours.

SUMMARY

Senior software engineer with 4+ years shipping production SaaS and AI products for clients across the US, UK, Europe and Asia. Led the ground-up rebuild of a confidential high-scale AI content platform (Project Quillscale) that has since grown past 20 million users, and migrated its full user base without downtime. Since then I have led or co-led six more AI products end to end: LLM content pipelines, real time speech intelligence, RAG systems, edge computer vision, and payment-critical integration middleware. Equally at home designing a Postgres schema, hardening a Linux edge device, or getting an LLM feature past the "cool demo" stage and into reliable production use.

CORE SKILLS

- **Frontend:** TypeScript, JavaScript, React, Next.js (App Router, RSC), React Native, Tailwind CSS, HTML/CSS
- **Backend:** Python, FastAPI, Django, Node.js, Ruby on Rails, REST APIs, WebSockets, SSE, Pub/Sub, OpenAPI contract-first design
- **AI / LLM:** OpenAI, Anthropic Claude, Gemini, Whisper, RAG pipelines, agentic workflows, prompt engineering, structured output validation, LLM cost and latency optimization
- **Data:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, Supabase (RLS, LISTEN/NOTIFY), Firebase, Prisma, SQLAlchemy, Elasticsearch
- **Cloud & DevOps:** AWS (EC2, S3, IAM), Azure, DigitalOcean, Vercel, Heroku, Docker, nginx, GitHub Actions CI/CD, Grafana, BetterStack, Sentry
- **Integrations:** Stripe, Shopify, WordPress, SendGrid, Zapier, Make, n8n, GoHighLevel, Notion, Web3 (Ethereum)
- **Testing & Automation:** pytest, Playwright, Selenium, scraping and browser automation at scale

EXPERIENCE

Visnext Software Solutions, Lahore, Pakistan (remote clients in US, UK, EU, HK, NL)

Lead Software Engineer | Jul 2024 - Present

Software Engineer | Jul 2023 - Jun 2024

Associate Software Engineer | Jan 2023 - Jun 2023

Technical lead on client-facing product teams. Own architecture, delivery, deployment and production support across 10+ engagements, most of them AI products built from scratch.

- Led the rebuild and data migration of a confidential high-scale AI platform (Project Quillscale) from a no-code stack to Next.js and Python microservices, moving millions of user records with a phased cutover and no service interruption.
- Delivered AI products end to end (VideoToBlog AI, Waltz AI, Profit-Pro AI, Sentient): LLM generation pipelines, live speech transcription with Whisper, RAG-based document operations, and prompt-driven site builders.
- Designed and ran payment-critical backend systems, including a middleware for a US law firm where every duplicate API call costs real money: idempotency ledgers, reliable Redis queues, circuit breakers and dead-letter stores.
- Built and deployed cloud infrastructure on AWS, Azure, DigitalOcean and Vercel with Docker and GitHub Actions, including private-network databases, TLS, WireGuard tunnels and zero-touch deployments.
- Contributed to Donorbox, a fundraising platform that has processed over 4 billion USD in donations: built GPT-based chat controls for the admin dashboard and Stripe coupon discount features in Rails.
- Worked with Stripe across five products: subscriptions, metered billing, coupons, auto-renewals and webhooks.
- Mentored junior engineers through code review, pairing and design sessions, and set the review bar for LLM output quality before release.

Freelance Full Stack Developer, Remote | 2021 - 2022

- Built a React and Django e-commerce platform for a local business and Python/Playwright automation for a market research client, cutting roughly 10 hours of manual data collection per week.
- Wrote a job-monitoring bot that fetched new Upwork postings and pushed curated leads to Slack within about 70 seconds of posting.

Web Developer Intern, Mindstorm Solutions | 2021 (3 months)

- Worked on internal React and Next.js tools inside a professional code review and version control workflow.

SELECTED PROJECTS

Project Quillscale, Lead Full Stack Developer (confidential engagement)

Next.js, Prisma, Supabase, Python, OpenAI, Stripe, DigitalOcean, Vercel

Client identity withheld. Project Quillscale is a public codename for a confidential high-scale AI platform engagement.

- High-scale AI content platform now past 20 million users. Led the migration off a no-code stack: redesigned the entire data model in Prisma, rebuilt the product in Next.js with Python backend microservices, and moved all existing users across without breaking sessions or subscriptions.
- Owned backend microservices, DigitalOcean and Vercel deployments, OpenAI integration and Supabase row-level security.

VideoToBlog AI, Lead Engineer (2-person team), videotoblog.ai

Next.js, Node.js, Firebase, Stripe, OpenAI, Claude, Gemini, Vercel

- AI platform that turns YouTube and Vimeo videos into SEO-optimized blog posts, with 500k+ articles generated and a 4.8-star rating across Trustpilot, G2 and Capterra. Led development for 9.5 months, about 250 merged PRs across frontend and backend.
- Owned the entire distribution layer: published the WordPress.org plugin, Shopify App Store app, GoHighLevel OAuth app and Zapier/Make/n8n integrations, plus publishing to Notion, Wix, Ghost, Blogger, Medium and Webflow.
- Built the subscriber and newsletter system, referral program and a fully hands-off automation flow from video ingestion to published post.

Optiva, Full Stack and Edge Platform Engineer (in progress)

FastAPI, PostgreSQL/Supabase, Next.js 15, TypeScript, NVIDIA Jetson, Docker, AWS, WireGuard, Redis

- AI video analytics platform for fuel stations: 50+ CCTV cameras per site feeding real time safety detections (PPE violations, unattended vehicles, license plates) from on-prem Jetson devices to a cloud portal.
- Designed the edge-to-cloud health mirroring pipeline: SQLite transition log on device, cursor-based at-least-once delivery over WireGuard, idempotent Postgres upserts, and SSE live updates driven by Postgres NOTIFY.
- Built the monitoring dashboard (severity analytics, per-camera uptime timelines), the audit review workflow with a locked evidence player, and the device hardening plan: disk encryption, sealed secrets, scoped tokens, fail2ban.

Docketline Integration Middleware, Lead Backend Engineer, sole developer

Python 3.12, FastAPI, PostgreSQL, Redis, SQLAlchemy, Docker, Azure, GitHub Actions

- Integration middleware for a US creditor-rights law firm (70+ staff, ~1,800 case referrals per month) replacing ~27,000 manual event completions per month against a billable SOAP API with no sandbox.
- Engineered duplicate-submission protection with a durable idempotency ledger and atomic claim semantics, so concurrent workers and crash recovery can never submit the same billable event twice.
- Built HMAC-signed ingestion with replay protection, a reliable Redis queue with delayed retries and dead-lettering, safety-gated egress (dry-run default, allowlist, circuit breaker), and full Azure infrastructure with CI/CD running an 80-test suite against real Postgres and Redis containers.

Waltz AI, Full Stack Developer

React, Django, PostgreSQL, SendGrid, Stripe, OpenAI, AWS, Supabase

- Lead intelligence platform with prompt-based AI site and form creation and scheduled campaigns.
- Built the campaign engine and scheduled email flows end to end on SendGrid, temporary domain provisioning with DNS configuration per client, and Stripe subscriptions with auto-renewal.

Sentient, AI Engineer, sentient-arc.com

React, Node.js, C#, Claude, Supabase, RAG

- PowerPoint plugin that generates and edits slide decks from prompts. Built the post-generation slide operations (editing, insertion, deletion, per-slide formatting) on a RAG pipeline over deck content.

Profit-Pro AI, Full Stack Developer, profit-pro.ai

Django, OpenAI, Whisper, AWS, Pub/Sub

- Sales intelligence platform for automotive dealerships: transcribes live sales conversations with Whisper, streams feeds to managers with red and green flag tagging, and predicts purchase intent. Built the core features and AWS deployment.

EDUCATION

B.S. Software Engineering, Lahore Garrison University, 2018 - 2022

CGPA 3.79/4.0, Silver Medalist (highest standing in graduating cohort)

Publication: IoT-Driven Smart Housing: Strengthening Housing Society Automation Through Secure and Futuristic Networks. Springer LNNS Vol. 1036 (2024). DOI: 10.1007/978-3-031-62881-8_25