

Muhammad Waleed Zia

Senior Full Stack Developer | AI Engineer

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SUMMARY

Senior Full Stack Developer with **5+ years** building web platforms and AI systems for startups and enterprises, leading **10+ products** from conception to deployment across React/TypeScript front-end development, Python and Node.js back-end services, and LLM evaluation pipelines.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React.js, Next.js, Redux, React Query, GraphQL, Apollo, Material UI

Backend: Node.js, Express.js, Nest.js, FastAPI, Flask, REST APIs, WebSockets, WebRTC

AI & LLM: LangChain, LangGraph, RAG, MCP, LLM evaluation (OpenAI, Anthropic, Google, Fireworks)

Infrastructure: PostgreSQL, MySQL, MongoDB, Redis, Celery, AWS, GCP, Docker, Kubernetes, Helm, CI/CD, Git

PROFESSIONAL EXPERIENCE

Full Stack AI Engineer

Dec. 2024 – Present

Turing

Remote

- Architected an internal LLM evaluation platform (FastAPI, Celery, Redis, MySQL) executing high-volume asynchronous evaluations, with a React/TypeScript operations dashboard for configuration, monitoring, and analytics.
- Designed a 2-stage evaluation pipeline pairing parallel primary evaluators with meta-evaluator aggregation, deepening evaluation quality without sacrificing throughput.
- Built RAG-enabled evaluation pipelines spanning 5 content modalities (text, documents, images, audio, video) with LangChain and LangGraph, with routing and failover across 4 LLM providers (OpenAI, Anthropic, Google, Fireworks).
- Engineered OS-World real-time streaming (GCP Pub/Sub, WebRTC, WebSockets, Selkies/GStreamer, STUN/TURN) with VM-level authentication.
- Cut VM-cleanup API overhead by consolidating region-by-region scans into a single aggregated Compute Engine API call; deployed via Helm.
- Led the MS-Novel Code pod: authored Python reference solutions, unit tests, and Dockerized environments while mentoring pod contributors.
- Curated ServiceNow datasets and validation suites in collaboration with AI researchers, raising training-data quality.

Senior Software Engineer

Mar. 2024 – Nov. 2025

Automatia

- Developed serverless applications with Python and AWS Lambda, delivering scalable, cost-efficient infrastructure.
- Created reusable React components with Redux, RTK Query, and Hooks, cutting feature development time by **30%**.
- Integrated Stripe payment processing to power billing workflows end to end.
- Instrumented Hotjar behavioral analytics, surfacing UX friction points that guided interface improvements.

Senior Full Stack Developer

Aug. 2023 – Nov. 2024

Daspire

- Shipped features for an Airbyte-based ETL SaaS web app (TypeScript, React, React Query), covering real-time data synchronization and state management.
- Instrumented FullStory session replay and Sentry error monitoring, accelerating issue diagnosis and release stability.
- Embedded ZohoSalesIQ live chat, lifting customer engagement and support responsiveness.
- Integrated a Strapi headless CMS, streamlining content operations for non-engineering teams.

Software Engineer

Aug. 2022 – Aug. 2023

UnioRx

- Built role-based access control with Redux-managed permissions for a B2B pharmaceutical exchange platform.
- Implemented multi-factor authentication and Stripe payments, hardening account security and enabling in-platform transactions.
- Delivered real-time chat and notifications over WebSockets, keeping buyers and sellers synced on order activity.
- Reduced initial load time via route-based code splitting; integrated the Google Location API for geolocation features.

Software Engineer

Aug. 2020 – Jul. 2022

Techling

- Created responsive React single-page applications with React Router and reusable Ant Design and Material UI component libraries.
- Optimized data-heavy views with server-side pagination and filtering, improving performance on large datasets.
- Embedded Smartlook analytics into the BringBoo grocery app, surfacing user-behavior insights for product decisions.
- Built responsive product features in React and Redux with GraphQL data fetching via Apollo Client.
- Designed Node.js and Express REST APIs backed by MongoDB to serve application data.

PROJECTS

BotBlogR (React, FastAPI, PostgreSQL, OpenAI): AI content-generation and SEO platform; migrated the Flask stack to React, FastAPI, and PostgreSQL, generating SEO-optimized copy via the OpenAI API.

ViaStat: Pharmaceutical delivery platform connecting patients, pharmacies, and couriers for on-demand medication delivery.

Amotius: DeFi-as-a-Service platform for safe, transparent, user-oriented digital-asset management.

EDUCATION

University of Lahore

BS in Computer Science

Lahore, Pakistan

Sep. 2016 – Feb. 2021