

Moiz Nafey

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Full-Stack Software Engineer with 5 years building production systems across AI agents, SaaS platforms, and cloud infrastructure. Specialized in the MERN stack (MongoDB, Express.js, React, Node.js) with TypeScript, Python backends with FastAPI, LangGraph multi-agent orchestration, and Terraform infrastructure-as-code on GCP and AWS.

WORK EXPERIENCE

Grona (formerly Relevic) - AI Website Optimization & CRO Platform 11/2025 - Present

Software Engineer (Full-time) - Node.js, Express.js, TypeScript, React, Redux Toolkit, RTK Query, MongoDB, BigQuery, LangGraph, GCP, Terraform

- Built a multi-tenant CRO and website personalization SaaS end to end: Node.js, Express.js and TypeScript REST API, React dashboard (Redux Toolkit, RTK Query), and a custom WYSIWYG visual editor for no-code A/B testing.
- Engineered the injected JavaScript SDK that applies personalizations, runs client-side A/B assignment via hashed bucketing, and collects visitor analytics on customer sites with no page flicker.
- Designed a LangGraph multi-agent system that researches competitors and GA4 traffic, generates on-brand copy and images, and turns natural-language prompts into deployable A/B campaigns.
- Built visitor analytics end to end: Cloud Run ingestion service, GCS event buffering, BigQuery loader job with scheduled SQL session roll-ups, and precomputed aggregates for the React dashboard.
- Owned Terraform infrastructure-as-code from an initial AWS stack (ECS Fargate, ALB, S3, CloudFront) through a zero-downtime migration to GCP (Cloud Run, HTTPS load balancer, Cloud CDN, GCS, Secret Manager, BigQuery).
- Built CI/CD on GitHub Actions with Workload Identity Federation keyless auth, deploying digest-pinned Docker images to Cloud Run with pre-deploy database migration jobs across staging and production.
- Load tested analytics ingestion with a multi-region k6 rig to 30,000 rps at 100% success, and eliminated production timeouts by fixing Cloud NAT port exhaustion on cross-cloud MongoDB Atlas connections.

The Leading Practice - AI Marketing Platform • Sheridan, WY 06/2025 - 11/2025

Software Engineer (Contractor) - React, ShadCN, Tailwind, Node.js, Express.js, Python, FastAPI, Supabase, CrewAI, Pinecone

- Architected a microservices-based multi-tenant SaaS platform with Node.js and Python FastAPI services and three-level RBAC authorization using Supabase Auth and row-level security, serving 40+ tenants and 5K+ end users.
- Built an AI-powered conversation hub with unified messaging across email, SMS, and live chat, implementing intelligent topic detection, automated categorization, and human-fallback logic for seamless omnichannel communication.
- Engineered Gmail AI automation in Python FastAPI with a RAG-based memory system on the Pinecone vector database and Gmail OAuth; implemented two-way email sync via Pub/Sub webhooks, processing 23K+ emails/day with 90-day conversation context retrieval via chunking and embedding strategies.
- Leveraged Model Context Protocol (MCP) framework with CrewAI orchestration to enable dynamic tool execution by AI agents; self-hosted DataForSEO MCP server and implemented meta-agent tool routing for automated SEO analytics report generation, reducing manual report effort by 70%.

SimplifyVms - Talent Management & VMS Platform 06/2023 - 05/2025

Associate Software Engineer - React, Python, Django, Flask, PostgreSQL

- Worked directly with Fortune 500 clients and engineering managers to ship features aligned with business timelines.
- Led the onboarding of client RXO by independently architecting and implementing a complex real-time integration with batch APIs for atomicity and rollbacks.
- Built a rules-based vendor onboarding engine with approval workflows and role-based access control.
- Engineered a multi-threaded bulk upload system for Marriott, reducing processing time by 60%.
- Wrote unit and integration tests to maintain 80% test coverage across services.

Origami Studios

08/2021 - 01/2023

Associate Software Engineer (Part-time) - Node.js, Express.js, MongoDB

- Developed and maintained RESTful APIs using Node.js, Express.js, and MongoDB, implementing CRUD operations and business logic for web applications.
- Implemented JWT-based authentication and authorization, securing API endpoints and managing user access control.
- Designed and integrated database models, controllers, and routes following MVC architecture to improve code maintainability and scalability.
- Tested, debugged, and documented APIs using Postman, while collaborating with team members to deliver new features and resolve production issues.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Frontend: React.js, Redux, Redux Toolkit, RTK Query, Material UI, ShadCN, Tailwind CSS

Backend: Node.js, Express.js, FastAPI, Flask, Django, MERN Stack, REST API design, JWT, OAuth, Microservices

Cloud & DevOps: GCP (Cloud Run, BigQuery, Cloud CDN, GCS, Secret Manager), AWS (ECS Fargate, ALB, S3, CloudFront), Terraform, Docker, GitHub Actions, CI/CD, Workload Identity Federation, k6, Sentry, Langfuse, CloudWatch

Databases: MongoDB, BigQuery, PostgreSQL, MySQL, Supabase, Pinecone

AI: LangGraph, CrewAI, LLMs, Multi-agent Systems, Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP)

EDUCATION

Bachelors in Computer Science

08/2019 - 05/2023

Lahore University of Management Sciences

Ordinary Levels and Advanced Levels

08/2014 - 05/2019

Lahore Grammar School (JT)