

Risheel Musthafa

Senior Software Engineer & AI Engineer · Dubai, UAE

14+ YRS EXPERIENCE UAE GOV · BANKING · ENERGY 5 AI INITIATIVES BUILT

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PROFILE

Senior Software Engineer with 14+ years of enterprise delivery across UAE government, banking, and energy — clients include Dubai Police, ADNOC, ADCB, and AWQAF. Alongside client work, built multiple internal AI initiatives spanning RAG platforms, autonomous agents, and multi-agent systems — from a production multi-tenant SaaS to agentic dashboards and internal operations tooling, all powered by Azure OpenAI. Applies AI-assisted development to close skill gaps rapidly — able to deliver production-quality work in unfamiliar stacks without a ramp-up period.

SKILLS

FRONTEND

React Next.js 15 TypeScript Tailwind CSS Framer Motion shadcn/ui MUI RTL / Arabic WCAG 2.1 AA i18n / Localization

AI ENGINEERING

RAG Systems LLM Integration Agentic Workflows Multi-Agent Architectures Hybrid Retrieval pgvector LlamaIndex Azure OpenAI Tool Calling MCP LangChain Vercel AI SDK Vision LLMs / Multimodal AI

BACKEND & INFRA

Node.js FastAPI Python PHP / Laravel WordPress PostgreSQL Docker Celery Redis Microservices REST API Design Git / GitHub

AI DEV TOOLS

Claude Code Cursor GitHub Copilot Gemini CLU

IOT / PLATFORM

ThingWorx PTC Composer

DIGITAL SIGNAGE

Scala BroadSign AppSpace Navori

INTERNAL AI INITIATIVES · E& ENTERPRISE · 2025-2026

KnowBot AI — Multi-tenant RAG SaaS

A multi-tenant SaaS platform that turns a company's own documents into a deployable AI assistant. Companies upload PDFs or Word files; the system processes them through a full RAG pipeline — Docling parses and cleans documents, BAAI embeddings convert content into semantic vectors, hybrid retrieval combines pgvector HNSW search with BM25 keyword search, RRF fusion ranks the best results, and Azure OpenAI generates cited answers grounded in the source material. The assistant embeds on any website with a single script tag. Built across 5 Docker microservices with full tenant isolation, a SQL query engine, and real-time streaming.

Next.js · FastAPI · LlamaIndex · Docling · pgvector · Azure OpenAI · Docker

DevOps AI — Internal Operations Platform

The DevOps team had no central platform — data was scattered across spreadsheets and emails. Built an 8-module system to consolidate it all: VM inventory with server detail pages, SSL certificate tracker that forecasts expiry before incidents occur, SPOC directory, system health dashboard with automated scoring, an AI chat interface that answers operational questions in plain English, plus metrics, feedback insights, and update request tracking. Deployed to Docker in production.

Next.js 15 · Azure OpenAI · pgvector RAG · PostgreSQL · Docker · Spline 3D

Research Agent — Autonomous Market & Competitor Intelligence

An autonomous research platform that continuously monitors industry trends, competitors, and news on user-defined topics. A scheduled agentic pipeline — query planning, web research, market-data enrichment, LLM analysis, and report generation — compares each run against long-term vector memory to detect meaningful change, then delivers executive summaries and full reports by email, with optional audio briefings. Search and text-analysis run on self-hosted infrastructure rather than third-party APIs, keeping research data private. It also includes a live dashboard showing each run's progress in real time, an admin panel for editing the AI's prompts without redeploying code, and one-click export to PDF, Word, or PowerPoint.

Next.js · FastAPI · LangChain · Azure OpenAI · pgvector · Celery · Redis · Docker

Compliance Agent — Autonomous Visual Compliance Auditing

An AI agent that audits physical site displays and device walls for compliance from camera photos, built for e& UAE locations. It compares a live photo against a saved reference image, scores compliance, and pinpoints exactly what's out of place. Rather than just reporting, the agent decides what happens next — notify staff, escalate to a manager, or schedule a recheck — weighing each decision against similar past audits. Includes zone-level analysis of specific display areas, a manager dashboard with trend tracking, Telegram and email alerts, and natural-language search and chat over audit history.

Next.js · FastAPI · Azure OpenAI Vision · pgvector · Celery · Redis · Docker

Dubai Police Dashboard — AI Insights & Chat Agent

An AI layer built into an operational analytics dashboard, combining several purpose-built agents rather than one generic chatbot. Short narrative summaries explain backlog trends and order aging in plain language, an insight generator runs multiple analysis agents in parallel and combines their findings into a screen-level summary, and a conversational assistant lets users ask questions about the data in natural language — it can also act on the dashboard directly, changing filters or opening a specific record instead of just describing it. A dedicated data-access layer strips personal information before anything reaches the AI, and every response is bilingual (Arabic/English).

Next.js · Azure OpenAI · Vercel AI SDK · Streaming Chat

EXPERIENCE

e& enterprise

2020 – Present · Dubai, UAE

Senior Software Engineer

- Oyoon — Dubai Police Camera Monitoring** Built the admin panel for Dubai Police's national camera monitoring system — controlling which officers access which camera feeds and locations. User and group management, role-based permissions, Active Directory SSO, SMS notifications via ESB, and a full audit log. Every officer who opens the Oyoon mobile app has their access configured through this system.
Next.js · Tailwind CSS · TypeScript
- SmartKhateeb — AWQAF Ministry of Islamic Affairs** Built the operations portal managing 1,000+ mosque khateeb's across all UAE Emirates — trilingual (AR/EN/Urdu) sermon scheduling, evaluations, recordings, and reports. Active Directory SSO, full RBAC.
Next.js 15 · shadcn/ui · TanStack Table · Zustand · RTL
- Sharjah Safari** Developed the full website for one of the world's largest safari parks — custom WordPress theme, 15+ ACF Pro modular content blocks, bilingual AR/EN, interactive park map, WPML, performance optimisation. Full ownership: dev + content.
WordPress · PHP · ACF Pro · WPML · MySQL
- MPOS — Abu Dhabi Commercial Bank** Built dual-portal POS operations platform for ADCB — real-time SLA dashboards, terminal & accessory inventory, merchant management, request tracking with timelines, field team assignments, and full activity logs.
Next.js 14 · MUI · React Hook Form · Redux · Framer Motion
- ADNOC NOC Portal — Abu Dhabi National Oil Company** Shipped the permitting portal for smart infrastructure installation across 72 ADNOC sites in all 7 UAE Emirates — 5-stage government approval chain, live equipment inventory per site, UAE-wide Mapbox installations map.
Next.js · MUI · Mapbox · ApexCharts · RTL/i18n
- NHRI — UAE National Human Rights Institution** Built the complete bilingual (AR/EN) public website and full CMS admin panel covering Paris Principles compliance, UAE/UN laws, Know Your Rights, Events, News, Library, Gallery, Careers with job applications, and a citizen complaint submission system.
Laravel PHP · Tailwind CSS · MySQL · RTL/i18n
- Oyoon SIM & Router Management** Shipped a complete hardware logistics platform for the internal e& enterprise team. 4 roles, 2-stage approval chain (Requester → Section Head → Director), real-time hardware availability dashboard, overdue alerts, issuance & return tracking, audit log, CSV export.
Next.js 15 · TypeScript · Prisma ORM · PostgreSQL · shadcn/ui · Docker
- GCGRA Self-Exclusion Portal — UAE Gaming Regulatory Authority** Built the UAE's national gaming self-exclusion platform — UAE Pass national ID auth, 5 gaming categories, exclusion periods from 6 months to 5 years, extend/return flows, bilingual AR RTL/EN, WCAG 2.1 AA compliant.
Next.js 15 · Tailwind CSS · Framer Motion · Radix UI · UAE Pass
- Digital Signage — Patchi & Sharjah Customs** Managed digital signage content and screen networks for Patchi retail locations and Sharjah Customs — content scheduling, playlist management, and screen zone configuration. Handled platform migration from AppSpace to Navori across both clients.
AppSpace · Navori

HyperMedia Dubai

2019 – 2020 · Dubai, UAE

Full Stack Developer & Digital Signage

Developed full-stack web solutions for a digital agency serving clients across the UAE. Built responsive front-end interfaces and server-side systems from requirements through deployment. Managed digital signage content across 30+ mall screens throughout the UAE using the Broadsign platform.

PHP · JavaScript · React · Broadsign

Rayaat

2018 · Dubai, UAE

Full Stack Developer

Designed and built client-facing web applications, managing the full development lifecycle from requirements gathering to delivery.

PHP · WordPress · HTML/CSS

Team Power International

2017 · Dubai, UAE

Full Stack Developer

Delivered full-stack web solutions for a Dubai-based firm — custom PHP backends, JavaScript frontends, and WordPress builds across client projects spanning corporate and e-commerce sectors.

PHP · JavaScript · HTML/CSS

Advanced Interactive Media Solutions (AIMS)

2015 – 2017 · Dubai Media City, UAE

Software Developer

Built custom web applications at a media-city digital agency, contributing to client projects spanning corporate, media, and e-commerce sectors.

PHP · JavaScript · WordPress · Scala

Krea8ve Minds

2013 – 2015 · India

Senior PHP Developer

Led development of WordPress themes, plugins, and custom PHP applications in MVC architecture. Managed LAMP server environments, gathered client requirements, and mentored team members.

WordPress · PHP · MySQL · LAMP

Adox Solutions

2011 – 2013 · India

PHP Developer

Built WordPress sites with custom themes and plugins, and developed PHP web applications including CMS, e-commerce, and PDF solutions. Worked with MySQL and SVN in a collaborative environment.

PHP · WordPress · MySQL · SVN

EDUCATION

University of Calicut

Bachelor of Engineering, Information Technology
2007 – 2011

PROFESSIONAL DEVELOPMENT

LinkedIn Learning — AI Engineering & Agentic Development · 2025

7 courses: MCP & Agentic AI, Claude Code (Agentic Coding), Build AI Agents with n8n, Custom Chatbots with n8n, Accelerate Development with Cursor, Vibe Coding Fundamentals, AI-Driven Software Development.