

ABDELRAZEK ELSAIED BADR

Software Engineering Technical Lead | Software Architect | Odoo & Full-Stack Engineering

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Career Progression: Software Developer → Software Engineer → Senior Software Engineer → Software Architect → Technical Team Lead (2010–Present)

PROFESSIONAL SUMMARY

Software Engineering Technical Lead and Software Architect with 15+ years of experience progressing from hands-on development to enterprise architecture and technical leadership. Specialized in Odoo ERP (v15–v19) techno-functional delivery, Python, B2B e-commerce, React/Next.js, enterprise integration, and cloud-native DevOps.

Delivered enterprise platforms to 10 major clients across Egypt and Saudi Arabia, including national ministries, Saudi Telecom Company, and King Saud University. Leads a distributed engineering team of 4–8 full-stack engineers, owning solution architecture, release strategy, and sprint delivery.

Combines architecture ownership and hands-on engineering depth with client-facing delivery and stakeholder management, extending into applied AI and workflow automation.

CORE COMPETENCIES

Technical Leadership | Software Architecture | Software Architecture | Odoo ERP & Techno-Functional Delivery | B2B E-Commerce | Enterprise Integration | System Design | Agile / Scrum | Team Mentoring | Code Review | Stakeholder Management | CI/CD | DevOps | Release Management | Technical Documentation

TECHNICAL SKILLS

ERP & Backend

Odoo ERP (v15–v19, Community & Enterprise) — Custom Addon Development, ORM, Models, Controllers, Security Rules, Wizards, QWeb Reports, Scheduled Actions; Python, Flask, RESTful API Design; B2B Commerce & Financial / Accounting Workflows; MVC / MVVM / SOA / OOP Design Patterns

Frontend & Web

Next.js, React, TypeScript, JavaScript (ES6+), Odoo OWL Framework, Tailwind CSS, shadcn/ui, Redux Toolkit, Zustand, TanStack Query, internationalization (next-intl / i18next)

Mobile

React Native, Expo, Flutter, Firebase, Ionic, Swift (iOS), Kotlin (Android)

AI & Automation

Agentic AI (CrewAI), Retrieval-Augmented Generation (RAG) & Vector Search (Supabase pgvector, HuggingFace embeddings), LLM Integration (LiteLLM, Google GenAI), AI Workflow Automation (n8n, Make.com), AI-Assisted Software Engineering — applied in independent and training-focused projects

Cloud & DevOps

Azure DevOps, Odoo.sh Multi-Environment Release Topology, Docker & Docker Compose, GitHub Actions (CI/CD), Git & Git Submodules, Portainer, Traefik, Nginx Proxy Manager, Vercel, Linux Server Administration, Prometheus / Grafana / Loki

Databases & Integration

PostgreSQL, Supabase, Microsoft SQL Server, Oracle; IoT & Biometric Hardware Integration (Suprema Devices, BioStar2 API); E-Invoicing & Tax Compliance (Saudi ZATCA, Egyptian Tax Authority)

Earlier-Career Technologies

C# / .NET, ASP.NET, WinForms, WCF, Silverlight, ADO.NET, Entity Framework, DevExpress XPO / XAF, Windows Services

SELECTED ENTERPRISE CLIENTS

Ministry of Interior (KSA) · Ministry of Economy and Planning (KSA) · Saudi Telecom Company (STC) · King Saud University · SAMTIA · adv-photonx · BinRush Ophthalmic Center / Ibn Rushd Medical Group

PROFESSIONAL EXPERIENCE

LAPLACE SOFTWARE — Egypt / USA | 2014 - Present

Primary employer; deployed as a dedicated outsourced engineering resource to enterprise clients in Saudi Arabia and Egypt.

Technical Team Lead / Software Architect | Remote (Egypt) | 2025 - Present

- Lead a distributed engineering team of 4-8 full-stack engineers across frontend, React Native, Odoo, and QA, owning technical direction, code quality, sprint execution, and engineering standards.
- Own architecture and delivery of SAMTIA, an Odoo-based B2B e-commerce platform serving enterprise buyers through a Next.js customer portal and an Account Manager Portal with role-based access, pricelist management, and account-level reporting.
- Designed and standardized a five-environment Odoo.sh release topology across two engineering teams, separating development, regression, UAT, and production delivery, automated with GitHub Actions and coordinated through Azure DevOps sprint delivery.
- Own core B2B financial and accounting workflows within Odoo and resolve production-critical issues across the platform, including a WebSocket frame-ordering fault affecting the client portal.
- Introduced a weighted performance evaluation framework for the engineering team, and integrated AI-assisted development and workflow automation tools into daily delivery and reporting practices.

Senior Software Engineer → Software Architect / Team Lead | On-site, Kingdom of Saudi Arabia | 2015 - 2025

Seconded on-site under Qwaed Technologies and Genius Valley (KSA), delivering to national ministries, telecom, and university clients.

- Led architecture and delivery of enterprise systems for the Ministry of Interior, the Ministry of Economy and Planning, Saudi Telecom Company (STC), and King Saud University — spanning document management, visitor management, access control, and time & attendance.
- Delivered a biometric time and attendance platform for King Saud University covering 10,000 employees across 300 fingerprint devices, and an equivalent system for STC serving 500 employees across 50 devices.
- Designed and packaged the Access Management System (AMS) suite on Odoo — modular addons for visitor management, access control, time & attendance, MDU, secretary workflow, and IoT school sound systems — with a Docker-based client release pipeline.
- Built and published a Saudi ZATCA e-invoicing compliance module on the Odoo App Store, reaching 5,880 downloads, alongside an Egyptian Tax Authority compliance integration.
- Migrated the delivery stack from legacy C#/.NET and DevExpress XAF to Odoo/Python and modern JavaScript, progressing from individual contributor to technical lead while running client requirements workshops, on-site deployment, and UAT in Arabic and English.

Software Engineer | Egypt | 2014 - 2015

- Built enterprise products in C#/.NET with DevExpress XAF and SQL Server, including a university laboratory system (Kafr El-Sheikh University), stock management, and property management platforms.

ACS (Branch of KSA-based Group) — Egypt | 2013 - 2014

Software Engineer

- Developed modules of an enterprise healthcare system using C#, Silverlight, WCF, and Oracle under an MVVM architecture.

GENIUS MAKING INTERNATIONAL ACADEMY & INDEPENDENT PROJECTS — Egypt | 2010 - 2013

Software Developer

- Delivered desktop and data-driven applications in C#/.NET with SQL Server for education, defense, and medical-training clients, from requirements gathering through deployment and support.

SELECTED PROJECTS

Enterprise Projects

SAMTIA — B2B E-Commerce Platform (SAMTIA, KSA) | Software Architect & Team Lead | 2025 - Present

Technologies: Odoo 18/19, Python, Next.js, TypeScript, PostgreSQL, Odoo.sh, Azure DevOps, Docker

- Architected an Odoo + Next.js B2B commerce ecosystem integrating ERP, buyer portal, account-manager operations, pricing, orders, permissions, and reporting.

Access Management System (AMS) Suite | Software Architect & Team Lead | 2024 - 2025

Technologies: Odoo, Python, OWL, JavaScript, PostgreSQL, React Native, Docker, BioStar2 API

- Productized a modular Odoo suite (ams_base, ams_bs, ams_vm, ams_mep, OTP login) covering visitor management, access control, time & attendance, MDU, and IoT school sound systems, packaged with a Docker-based release pipeline and Suprema biometric integration.

Document & Task Management iPad Applications (Ministry of Interior, KSA) | Software Engineer & Team Lead | 2020 - 2023

Technologies: C#, .NET, WCF, DevExpress XAF, Ionic + Angular, SQL Server, iOS

- Delivered a secure iPad document circulation and task management system for ministerial executive leadership, backed by a WCF service layer and enterprise identity controls.

Electronic Medical Record (BinRush Ophthalmic Center, KSA) | Software Architect & Team Lead | 2020 - 2023

Technologies: Odoo, Python, JavaScript, OWL, HTML5, Bootstrap, PostgreSQL

- Delivered a specialist ophthalmic EMR platform on Odoo covering outpatient (OP) and inpatient (IP) clinical workflows, patient records, and reporting.
- Integrated insurance claim processing through the Saudi NPHIES national health information exchange.

Selected Independent Projects

Tayabat — Nutrition Mobile Application | Lead Engineer | 2025 - 2026

Technologies: React Native, Expo, Supabase, Zustand, Next.js, Vercel, Firebase, GA4

- Built a consumer nutrition application end to end as a personal engineering project — mobile client, Supabase backend, Next.js marketing site, analytics, and Play Store release assets.

AI Automation & RAG Workflow Platform | Lead Engineer | 2025 - 2026

Technologies: n8n, CrewAI, LiteLLM, Supabase pgvector, HuggingFace, Evolution API

- Developed multi-agent automation workflows including a WhatsApp/Telegram AI assistant with calendar integration, and a retrieval-augmented document ingestion pipeline over a vector database.

EDUCATION

Professional Diploma, Software Development (9-Month Program)

Information Technology Institute (ITI), PSD Department — Egypt | 2013

Pre-Master's Studies, Computer Science

Mansoura University — Egypt | 2012

Bachelor of Computer and Information Systems, Computer Science

Mansoura University — Egypt | 2010 | Final-year grade: 90%

PROFESSIONAL DEVELOPMENT

AI Automation Certificate — Dotpy Academy (2-month program): prompt engineering, n8n workflow design, and no-code AI tooling.

LANGUAGES

Arabic — Native | English — Professional working proficiency