

MOHAMED SOBHY ELKAMHAWY

Software Engineering Director | Software & Solutions Architect

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PROFILE HIGHLIGHTS

An enthusiastic and versatile technology leader blending strategic direction with hands-on architectural depth. An initiative-taking, open-minded professional who thrives in quality-oriented, delivery-focused teams, encouraging creativity and innovation in pursuit of excellence.

- More than two decades of experience across large-scale enterprise systems, process orchestration, digital transformation, system integration, and AI-enabled automation, working as a hands-on architect and engineering leader. Skilled at managing projects, leading diverse teams, and collaborating with technical and non-technical stakeholders to deliver solutions that drive success.
- Trusted as a long-term technology advisor by enterprise and public-sector clients, translating business objectives into architectural direction and delivery roadmaps, then carrying them through implementation, adoption, and sustained operation.
- Led the architecture, design, and implementation of enterprise distributed systems spanning Azure and AWS clouds, on-premises and hybrid environments, SAP landscapes, containerized workloads, and AI/ML and agentic platforms, delivering secure solutions that comply with enterprise standards. Managed initiatives using Agile Scrum, SAFe and Waterfall across all SDLC phases.
- Championed the planning and execution of automation, AI and agentic-enablement programs focused on optimizing core business processes, delivering enterprise solutions across domains including Oil & Gas, ERP, HRM, CRM, Retail, Pricing Evaluation, Operational Excellence, Shift Management, Quality, Supply Chain, Utilities, Sales, Finance, Inventory, Education & Medical.
- Mentored teams to foster innovation and collaboration, simplifying complex technical concepts into actionable strategies. Provided expertise in software design, security, performance, usability, and economic trade-offs to drive successful outcomes.

PROFESSIONAL EXPERIENCE

Software Engineering Director

Osoul Consulting Group - Doha, Qatar / Cairo, Egypt

July 2026 - Present

theosoulgroup.com

Lead the Software Engineering section, defining technology strategy, cloud platforms, architecture, and engineering standards. Provide consulting services across applications and cloud solutions design and implementation, ensuring security, scalability, performance, and maintainability throughout the software development lifecycle.

- Advise on, design, and deliver scalable enterprise software solutions across a broad client portfolio, seamlessly integrating hybrid cloud environments, advanced process orchestration, decision automation, and AI agentic systems.
- Govern cloud environments and drive the DevOps practice, establishing testing standards, release management, and continuous optimization for secure, high-performance applications.
- Build core technical frameworks and capabilities, advancing team engineering skills through mentoring and design reviews.
- Provide estimates and feasibility assessments for client proposals and carry out the section's revenue and utilization targets.

Principal Software & Solutions Architect

QatarEnergy LNG - Doha, Qatar

January 2023 - June 2026

qatarenergylng.qa

Engaged as a senior consultant to architect, design and implement scalable, secure, and cost-effective Azure, SAP, and distributed systems solutions aligned with business objectives for the state-owned national energy enterprise. Provided technical leadership, developed TOGAF-aligned architectural blueprints, guided teams in adopting cloud services, and evaluated emerging technologies, including AI, while ensuring compliance with enterprise security and privacy best practices.

- Designed, built and delivered the Enterprise Partners Management System, a contract correspondence and partner engagement platform with flexible dynamic workflows and a unified portal that streamlines operations across external partner ecosystems and internal delivery teams, in collaboration with the project team.
- Led delivery of the enterprise Alarm Shelving Override (ASO) system, integrated with the Electronic Shift Management System (ESMS), digitizing installation and removal governance, shift-based tracking, and multi-level endorsement workflows for control-room safety and operational continuity.
- Collaborated on introducing AI agentic systems within automated business processes and AI-assisted practices across the SDLC, contributing multi-agent workflow design, guardrails and human-in-the-loop review that accelerate document-heavy approvals while preserving auditability.
- Architected and delivered the Shutdown Scope Change Request system for mission-critical LNG facilities, streamlining governance protocols and mitigating operational downtime risks across multi-plant turnarounds.
- Delivered an in-house Enterprise Asset Management System (AMS) covering the full asset lifecycle, replacing fragmented tracking with real-time inventory visibility, automated alerts, QR-enabled audits and compliance reporting.
- Co-engineered the enterprise Management of Change (MoC) framework, standardizing audit trails and cross-departmental workflows across Azure, SAP, and custom hybrid systems for 5,000+ stakeholders.
- Applied TOGAF to produce architectural blueprints, baseline and target architecture views, and solution assurance artifacts.

Lead Analytics Architect

Ericsson - Stockholm, Sweden

January 2022 - December 2022

ericsson.com

Led the BCSS Security Analytics "STAR" team, delivering the analytical platform that governs security and compliance verification across Ericsson's BCSS CI/CD pipelines and keeps the product catalog aligned to the Ericsson Security Reliability Model.

- Spearheaded the design of the award-winning BCSS Security Analytics platform, embedding continuous security compliance into the CI/CD pipelines and accelerating vulnerability detection throughput by 50% while hardening the overall security posture.
- Architected the platform end to end on Azure Data Factory and Databricks for ingestion and correlation, with Power BI dashboards and a Vue.js portal backed by Java Spring Boot services giving stakeholders one view of deficiencies and compliance drift.
- Sponsored a 25% OpEx cost-reduction initiative by optimizing observability, automated triage, and mean-time-to-resolution (MTTR) for critical build pipeline defects, vulnerabilities and issues.

Cloud Solutions Architect

Clas Ohlson - Stockholm, Sweden

January 2021 - December 2021

clasohlson.com

Managed the delivery of a stable, reliable & performant enterprise-grade Azure cloud environment, consulting on software solutions and producing highly detailed architecture & design specifications for Clas Ohlson's cloud-based workloads within a TOGAF-aligned architecture governance model.

- Architected critical enhancements for the Clas Ohlson core retail platform, contributing directly to peak user engagement and unprecedented customer retention metrics.
- Directed the enterprise Azure Governance program, establishing automated compliance policies, cloud resource management, and security controls to achieve a 50% increase in policy compliance.
- Established the enterprise Architectural Repository following TOGAF architecture content and governance practices, providing single-source-of-truth governance and lifecycle versioning for all cloud solutions and design specifications.
- Contributed to SAFe® Agile rollout, aligning multi-team architectural strategies across the enterprise retail ecosystem.

Software Development Lead (Part-time)

BeautyClick - Stockholm, Sweden

July 2021 - December 2021

beautyclick.com

Part-time engagement through QRIOS, running in parallel with a concurrent client assignment. Guided BeautyClick through their major technology stack migration and upgrade to AWS, delivering secure, stable & reliable releases across frontend, backend services, databases & infrastructure.

- Modernized BeautyClick infrastructure and applications into a highly available, secure & SEO-optimized web portal integrated with Google Ads & Facebook Pixel marketing analytics, placing it in the top five search results for beauty products in Sweden.
- Delivered highly detailed architecture & design specifications for enterprise cloud workloads on AWS.

Lead Solutions Architect

QRIOS (formerly: Poolia IT) - Stockholm, Sweden

January 2021 - December 2022

qrios.se

Full-time consulting role with QRIOS, through which my services were engaged by Ericsson, Clas Ohlson, and BeautyClick for the assignments detailed above. Provided client-facing technology consulting for large-scale enterprises, advising on solution strategy, architecture governance, and implementation roadmaps to streamline business processes and improve core operational efficiency.

- Supported business development efforts by positioning technical expertise into compelling client consultation offerings, helping secure consulting engagements while sustaining strong client retention and high customer satisfaction.
- Co-founded the TekOps community as an internal consulting and knowledge-sharing forum, and served as a regular speaker at its Tech Night events, delivering mentoring and practical guidance on software architecture, distributed systems, cloud adoption, and enterprise solution delivery.

Senior Solutions Architect

QatarEnergy LNG (formerly: Qatargas) - Doha, Qatar

December 2010 - December 2020

qatarenergylng.qa

Provided technical consulting on major enterprise-wide software projects, delivering highly detailed solution architectures, design specifications, and implementations. Collaborated with analysts & business stakeholders to translate business requirements into functional & technical designs, while providing technical management & mentoring for development teams.

- Led the delivery of the Qatargas Unified Inbox, an innovative enterprise-wide portal granting unified access to business process workflows across consolidated source systems, integrated with SAP NetWeaver Gateway & Core Services.
- Architected, designed and implemented the enterprise Pricing Evaluation System, directly facilitating strategic contract optimizations that unlocked +1.2 billion QAR (~\$330M USD) in financial savings on major LNG contracts.
- Applied TOGAF architecture development practices across enterprise programs, defining baseline and target architecture views, running gap analysis, and producing the architecture definition and governance artifacts that guided delivery teams.

- Led the design & implementation of the Qatargas SAPUI5/Fiori frameworks and their enterprise composite components, driving the enterprise-wide UI/UX guidelines based on SAP Fiori standards.
- Modeled and implemented integration processes and business rules for smooth end-to-end process orchestration across SAP PI/PO and connected enterprise systems.
- Recognized for pivotal contributions to the Qatargas-RasGas merger integration program, aligning SAP PI/PO architecture with newly merged organizational structures and redefined enterprise processes against a consolidated target architecture.
- Designed and implemented enterprise-level software solutions serving Qatargas core business processes (LNG production shift & reports management, pricing evaluation, finance, human resources, utilities, education, medical & public relations).

Senior Technical Consultant

ABA Technology Solutions - Doha, Qatar

December 2010 - December 2020

alibinali.com

Full-time consulting role with ABA Technology Solutions, through which my services were engaged by Qatargas (now QatarEnergy LNG) for the decade-long Senior Solutions Architect assignment detailed above. Provided technical consulting to large-scale enterprises across Qatar's private & public sectors, maintaining a high rate of customer satisfaction across business domains.

- Retained the Qatargas enterprise consultancy contract for 10 consecutive years on sustained client satisfaction and delivery.
- Engineered the integration gateway connecting Oracle ERP with the NTS Wincash point-of-sale platform.

Senior Software Team Lead

SoftSolutions - Cairo, Egypt

March 2009 - December 2010

Led the core framework engineering team, architecting the foundation that powered all flagship SoftSolutions enterprise products.

- Spearheaded the design and end-to-end implementation of the BaseRock application framework, standardizing software development lifecycles across the organization.
- Co-engineered "Dimensions," SoftSolutions' industry-recognized Islamic financing system, driving architecture alignment across cross-functional delivery teams.
- Designed and implemented "DynaGate," an enterprise integration middleware engine providing abstract APIs and connectors to automate multi-system orchestration across Microsoft Dynamics GP/CRM and legacy environments.

Senior Software Engineer

Bitco Innovative Ideas - Cairo, Egypt

March 2007 - February 2009

bitco-eg.com

Led the .NET application development team behind Bitco's secure, reliable & resilient custom software solutions, deepening hands-on expertise in solution design, code quality, performance optimization, and systems integration.

- Championed the development of Diamonds, Bitco's custom ERP solution, spanning sales, inventory, finance & HR modules.
- Spearheaded the development and delivery of the Faculty Management Information System (FMIS) for Al-Azhar University.

Software Development Instructor

AsyeaTech - Cairo, Egypt

July 2006 - February 2009

Taught professionally tailored, high-density software development courses leading to MCAD, MCSA, MCTS & MCPD certifications, and collaborated on the trainers onboarding framework initiatives.

- Delivered professionally tailored, high-density software development courses for a broad range of trainees.

Software Engineer

Arabia-IT - Cairo, Egypt

July 2005 - February 2007

arabia-it.com

Designed and developed Windows and web applications using C# (.NET Framework), delivering reusable software components while contributing to unit testing, debugging, and technical documentation to ensure high-quality, maintainable solutions.

- Collaborated on the development of the Al-Rejal Encyclopedia software, supporting a wide range of academic researchers.
- Contributed actively to the development of Arabia-IT commercial products and internal company tools.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Engineering

AIET, Alexandria University - 2004 - Egypt

Microsoft Certified: Azure Fundamentals

September 2020

SAP Certified Development Associate - SAP Fiori

September 2018

Microsoft Certified Technology Specialist

April 2008

Microsoft Certified: Azure Solutions Architect Expert

August 2026

SAP Certified Technology Associate - Process Orchestration

December 2018

Microsoft Certified Dynamics Specialist

February 2010

Microsoft Certified Professional Developer

April 2008

TRAINING

Azure Solutions Architect Certification - Training

Simplilearn Education - March 2020 - Qatar

ITIL Foundation - Training

Simplilearn Education - December 2018 - Qatar

TOGAF Certification Program - Training

Simplilearn Education - February 2020 - Qatar

Project Management Professional (PMP) - Training

PMI Arabian Gulf Chapter (PMI-AGC) - May 2010 - Qatar

SKILLS & COMPETENCIES

A working landscape was built over more than two decades. Curiosity keeps it growing, and every entry below has earned its place through delivered work rather than passing familiarity.

Programming Languages

C#, Java, Python, JavaScript / TypeScript, C, C++, PHP, Dart, Assembly, Bash, VB6, Pascal & BASIC.

Frontend & Mobile

React, Next.js, Vue, Angular, SAP UI5 & Fiori, SAP MDK, .NET MAUI, React Native, Flutter, PWA, WASM, WPF & WinForms.

Architecture & Distributed Systems

Distributed & microservice architecture, event-driven and message-based design, asynchronous processing, eventual consistency, idempotency & retry semantics, resilience, fault isolation & graceful degradation, scalability, caching & performance design, domain-driven design.

Cloud & Containers

Azure, AWS, GCP, Docker, Kubernetes (AKS & K3s), .NET Aspire, serverless compute, hybrid & on-premises integration, cloud governance & cost optimization.

AI & Agentic Systems

LLM-powered solutions, agentic workflows & orchestration, Model Context Protocol (MCP), prompt & schema engineering, RAG, AI evaluations, safety guardrails & human-in-the-loop design.

Integration & Process Orchestration

SAP (BTP, PI/PO & BPM/BRM), Microsoft (Power Platform, Dynamics & SharePoint), Elsa, OpenText Captaris, Bizagi, Kafka, Azure Service Bus & RabbitMQ.

Testing & Quality

Test-driven development, unit & integration testing, xUnit, Playwright, automated regression suites in CI/CD, code quality gates & peer design reviews.

Monitoring & Observability

Azure Monitor, Application Insights, OpenTelemetry, distributed tracing, structured logging, Prometheus, Grafana & Logstash.

Backend & Services

.NET & ASP.NET Core (Web API, MVC, Razor, Blazor), Spring Boot, Node.js, Bun, background workers & scheduled processing.

APIs & Interfaces

REST, GraphQL, gRPC, OData, SOAP & Web Services, OpenAPI contracts, versioning & backward-compatibility strategies.

Enterprise Architecture

TOGAF architecture development & governance practices, C4 model, UML & ArchiMate modelling, baseline & target architecture definition, gap analysis, architecture decision records, architecture repositories, standards & conformance reviews.

Security & Identity

OAuth2 / OIDC, identity federation & SSO, role and claim-based authorization, secure-by-design practices, SAST/DAST & dependency scanning, secrets management, compliance verification.

Data Platforms

Azure (SQL, Synapse, Data Factory, Redis & Cosmos DB), Microsoft Fabric & OneLake, Databricks, AWS (RDS, DynamoDB & Redshift), SQL Server, Oracle, MongoDB, PostgreSQL, MySQL, Elasticsearch & SAP HANA.

Reporting & Analysis

Power BI, SAP Business Intelligence (Universes, Web Intelligence Reports, Xcelsius & Crystal Reports), SQL Server Reporting Services & Visual Studio Tools for Office.

DevSecOps & Automation

CI/CD, Git, GitHub Actions, Azure DevOps, Jenkins, IaC (ARM, Bicep & Terraform), Helm, CodeQL, SonarQube, SAP NWDI, Microsoft (TFS & SourceSafe) & Apache Subversion.

Project Management & Planning

Agile Scrum, SAFe & Waterfall, Jira, Azure DevOps, Microsoft (Project & Visio), Confluence, Miro, Draw.io & Eraser.io.