

Mohammed O. M. ALAKHRAS

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A results-driven Information Management and AI Engineer with over a decade of experience delivering cutting-edge digital transformation initiatives, enterprise-grade software systems, and intelligent automation solutions with international agencies and global stakeholders, mainly with UN agencies.

My recent specialization in developing AI-powered solutions, with hybrid solution architectures (pro/low code base), with solid capacity to write and build DevOps-based delivery pipelines. Strong foundation in data-driven applications, semantic AI agents, and cloud-native technologies, with a proven ability to lead cross-functional teams across complex projects in dynamic environments. Proficient in designing and optimizing AI workloads on PaaS, developing cost-efficient architectures for generative AI, and managing the lifecycle of agentic AI systems.

CAREER HISTORY:

- **Software Development Technical Lead - AI solutions**

United Nations – March 2022 – Present (Contract Ending June 2025)

- Development of AI-powered solutions for UN ICT Data operations (orchestration capabilities - Microsoft Semantic Kernel).
- Built and deployed intelligent agents, including:
 - AI HR Agent for smart candidate screening.
 - Proposal Writing Agent for automating funding and program documentation.
- Spearheaded architecture improvements and code quality initiatives aligned with DevOps & Agile standards.
- Maintained and optimized global product backlogs; supported multiple SCRUM teams worldwide.
- Designed and optimized AI workloads on PaaS platforms, ensuring cost-efficient and scalable architecture.
- Implemented AI sandbox environments for testing and deployment of new AI models.
- Professional in using Semantic Kernel orchestration for complex workflows in AI-driven systems.

- **ICT DevOps Engineer**

United Nations – Sep 2022 – Sep 2023

- Built CI/CD pipelines using Azure DevOps across multiple projects and technologies.

- Integrated security-focused DevSecOps tools (e.g., SonarCloud, SonarLint) in collaboration with InfoSec.
 - Supported MiMOSA business systems (.NET stack) across global regions with automated deployment and monitoring strategies.
- Field Applications Officer – Gaza Field Office**
UNRWA – Dec 2019 – Sep 2022
 - Coordinated digital transformation for Gaza field operations across HR, Health, Education, Relief, and Logistics sectors.
 - Led the cloud migration of collaboration systems from on-premises to Office 365 (SharePoint, Power Platform).
 - Directed COVID-19 emergency tech adaptations for food distribution, medical service, and shelter systems.
 - Enforced best practices in system architecture, QA, and InfoSec across all applications.
- Team Lead – Analyst Programmer**
UNRWA – Jan 2018 – Dec 2019
 - Managed full-cycle development for enterprise-grade systems used across 5 countries.
 - Supervised development teams and ensured compliance with UNRWA HQ software standards.
 - Pioneered the Access Control System rollout across multi-site compounds.
 - Built a highly dynamic Data Collection Tool with advanced permission controls and system integrations.
- Senior Analyst Programmer**
Palcore Technology Co. – Feb 2012 – Dec 2017
 - Developed mobile and web-based eCommerce platforms using both native and cross-platform technologies.
 - Designed scalable backend architectures and led technical delivery teams.
- Assistant Programmer**
UNRWA – Jun 2011 – Jan 2012
 - Developed the Daily Teacher Management Application (DTMA) used by 300+ schools and 9,000+ staff.
 - Delivered solutions using ASP.NET, C#, SQL Server.
- Developer**
CDH Rafah – Jun 2008 – May 2011

- Designed the Admission & Registration System for University College – end-to-end database and UI/UX.

Professional GitHub blog:

<https://mdakhras.github.io/>

Professional Certificates:

- Edx Certificate - International Project Management ([Link](#))
- Edx Certificate - Best Practices for Project Management Success ([Link](#))
- Edx - Project Management Life Cycle ([Link](#))
- LinkedIn - Infrastructure as Code with Terraform ([Link](#))
- LinkedIn - Application Security in DevSecOps (2019) ([Link](#))
- LinkedIn - Learning Terraform ([Link](#))
- LinkedIn - DevOps Foundations: Infrastructure as Code ([Link](#))
- LinkedIn - ITIL® Foundation 4 First Look ([Link](#))

PROJECTS & ACHIEVEMENTS

- Building multiple AI agents – POCs with conversational capabilities (AutoGen, Langchain)
- AI Agents (Semantic Kernel) – AI HR Screening Agent
- AI Assistant Proposal Writing Agent
- Emergency Displacement Individuals Tracking System (EDITS)
- Recruitment & Volunteer Management System
- Neutrality Management Information System
- Access Control System
- Education Management Information System
- Dynamic Data Collection Tool
- Daily Teacher Management Application

KEY TECHNICAL SKILLS:

AI & Automation

- AI Agent Development (Semantic Kernel & AutoGen)
- Power Platform (Power Apps, Power Automate)
- Intelligent Workflows & Cognitive Services
- Design & Optimization of AI Workloads on PaaS

- Cost-Efficient AI Architecture (Generative AI)
- Agentic AI Systems Lifecycle Management
- AI Sandbox Deployment

Software Engineering

- Python, C#, ASP.NET MVC, Entity Framework
- REST APIs, Microservices, System Integration
- Java, AngularJS, JQuery, AJAX, JSON, XML

DevOps & Security

- Azure DevOps (CI/CD, Pipelines, Boards)
- Version Control (GIT, TFS)
- DevSecOps Tools (SonarCloud, SonarLint, etc.)

Data & Cloud

- SQL, T-SQL, Advanced Data Modeling
- Office 365, SharePoint Online
- Microsoft Azure Services

System Integration:

- Database Design, System Analysis, Performance Monitoring

PERSONAL COMPETENCIES:

- **Leadership & Team Collaboration:** Led diverse teams across global projects, fostering a collaborative and results-driven work environment.
- **Client Orientation:** Ensured client needs were met by delivering customized, high-quality systems.
- **Adaptability:** Demonstrated the ability to quickly adapt to new technologies and challenges in fast-paced environments.
- **Effective Communication:** Led presentations, training sessions, and wrote technical documentation for global stakeholders.

ACADEMIC QUALIFICATIONS:

- MSc in Information Technology – Islamic University Gaza (2010 – 2014)
- BSc in Information Technology – Islamic University Gaza (2004 – 2008)

LANGUAGES:

- Arabic: Native
- English: Fluent