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.

- o Implemented AI sandbox environments for testing and deployment of new AI models.

- o Professional in using Semantic Kernel orchestration for complex workflows in AI-driven systems.

- **ICT DevOps Engineer**
  United Nations – Sep 2022 – Sep 2023

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

  - o Integrated security-focused DevSecOps tools (e.g., SonarCloud, SonarLint) in collaboration with InfoSec.

  - o 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

  - o Coordinated digital transformation for Gaza field operations across HR, Health, Education, Relief, and Logistics sectors.

  - o Led the cloud migration of collaboration systems from on-premises to Office 365 (SharePoint, Power Platform).

  - o Directed COVID-19 emergency tech adaptations for food distribution, medical service, and shelter systems.

  - o Enforced best practices in system architecture, QA, and InfoSec across all applications.

- **Team Lead – Analyst Programmer**
  UNRWA – Jan 2018 – Dec 2019

  - o Managed full-cycle development for enterprise-grade systems used across 5 countries.

  - o Supervised development teams and ensured compliance with UNRWA HQ software standards.

  - o Pioneered the Access Control System rollout across multi-site compounds.

  - o Built a highly dynamic Data Collection Tool with advanced permission controls and system integrations.

- **Senior Analyst Programmer**
  Palcore Technology Co. – Feb 2012 – Dec 2017

  - o Developed mobile and web-based eCommerce platforms using both native and cross-platform technologies.

  - o Designed scalable backend architectures and led technical delivery teams.

- **Assistant Programmer**
  UNRWA – Jun 2011 – Jan 2012

- o Developed the Daily Teacher Management Application (DTMA) used by 300+ schools and 9,000+ staff.
- o Delivered solutions using ASP.NET, C#, SQL Server.

- **Developer**
  CDH Rafah – Jun 2008 – May 2011
  - o 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