

Salah Abdelhady

AI Engineer | Cloud & Data Engineer

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Professional Summary

AI Engineer with experience in Generative AI, cloud architecture, and data engineering. Skilled in building and deploying scalable AI solutions across Microsoft Azure and OCI using Terraform, Docker, CI/CD, RAG, and LLMs.

Education

Alamein International University

BSc in AI Engineering

CGPA: 3.85

2022 – Expected Graduation: 2027

Work Experience

AI Engineer / Cloud & Data Engineer

May 2026 – Present

HealthPlans.ai / IntelliH

- Design and implement AI, cloud, and data solutions on **Microsoft Azure**.
- Architect secure cloud infrastructure using **Container Apps, Front Door, APIM, Key Vault, VNets, Private Endpoints, and Bastion**.
- Automate infrastructure and CI/CD using **Terraform, Docker, Azure Container Registry, and GitHub Actions**.
- Build and troubleshoot production **data and GenAI solutions** using Azure Data Factory, Cosmos DB, Azure SQL, Blob Storage, LLMs, and RAG.

Cloud Engineer Intern

2026

EJADA Systems

- Completed an intensive **Oracle Cloud Infrastructure (OCI) and Cloud Engineering** internship focused on hands-on cloud infrastructure, automation, and deployment.
- Designed and provisioned cloud infrastructure using **Terraform**, applying Infrastructure as Code principles to create repeatable and maintainable environments.
- Worked with core OCI services including **VCN, IAM, Compute, Object Storage, OKE, OCIR, Load Balancing, and cloud networking**.
- Containerized applications with **Docker** and worked with **Oracle Kubernetes Engine (OKE)** and **Oracle Cloud Infrastructure Registry (OCIR)** for container deployment.
- Applied cloud security practices including **IAM policies, compartment isolation, least-privilege access, secrets management, and security scanning**.
- Integrated infrastructure and application workflows with **CI/CD** and version-controlled deployment practices.
- Used **Checkov and Gitleaks** to identify infrastructure security issues and exposed secrets during development.

Co-Founder & CTO

December 2024 – August 2026

Excellence (Startup)

- Led technical strategy, architecture and AI product development for a technology startup.
- Led engineering teams and shaped product vision, business strategy and technical decisions.

AI & Data Engineer (Freelance)

August 2024 – Present

- Delivered AI and data engineering solutions, including scalable ETL pipelines and end-to-end AI systems.
- Built automation and data analysis workflows to improve efficiency and decision-making.

Quantum Computing & Programming Intern

Jun 30, 2025 – Dec 15, 2025

Q Egypt — AIU & Alexandria Quantum Computing Group (AleQCG)

- Completed intensive 12-week Quantum Computing Summer Training achieving **298/300** final grade.
- Completed 20 hours of lectures and 30 hours of hands-on quantum programming laboratory work.
- Gained practical experience in quantum algorithms and quantum programming frameworks.

Cross-Platform Mobile Developer Intern

June 2025 – December 2025

Digital Egypt Pioneers Initiative (Ruwwad Masr Al-Raqamiya)

- Completed Software Development track specializing in Cross-Platform Mobile App Development.
- Built and deployed cross-platform mobile applications using modern development frameworks.

Data Engineer

January 2025 – November 2025

Ministry of Communications and IT (MCIT)

- Supported data engineering initiatives involving data infrastructure, processing, and digital transformation.
- Contributed to improving data pipeline efficiency and data management workflows.

.NET Full-Stack Engineer Intern

Jul 13, 2025 – Oct 9, 2025

Information Technology Institute (ITI)

- Trained in full-stack development using .NET, C#, and ASP.NET Core.
- Built backend systems using REST APIs and relational database integration.

Microsoft Data Engineer Intern

April 2024 – October 2024

Digital Egypt Pioneers Initiative (DEPI) — Ministry of Communications and IT

- Participated in the national Digital Egypt Pioneers program as a Microsoft Data Engineer trainee.
- Developed ETL pipelines and data warehousing solutions using Microsoft Azure technologies.
- Recognized as **Team Leader** and awarded a certificate by the Advisor to the Minister of ICT.

Projects

- Smart Transport System for Cairo** — Designed an ML-based system to optimize traffic management and public transportation.
- Stroke Prediction Model** — Developed a machine learning model for stroke risk prediction and healthcare data analysis.
- Embedded Maze Solver** — Implemented AI-based pathfinding for real-time maze navigation on an embedded system.
- SAWA Mobile Application** — Developed a cross-platform fitness and wellness mobile application.
- Numerical Methods Solver** — Built a web-based and package-based numerical methods solver with interactive visualization.
- Global Stadiums Data Analysis** — Analyzed global stadium datasets to identify patterns, trends, and actionable insights.
- Amazon Product Scraper** — Developed an automated scraper for large-scale product data extraction and analysis.
- Enhanced Multitask Learning for StudentBERT** — Improved multitask NLP performance using advanced optimization and model training techniques.

Certifications

- **Programming Generative AI Specialization** (3-course series) – Pearson (Coursera), Apr 2026
- **Building Multi-Agent Systems** – Microsoft (Coursera), Apr 2026
- **Natural Language Processing in TensorFlow** – DeepLearning.AI (Coursera), Dec 2025
- **Natural Language Processing with Classification and Vector Spaces** – DeepLearning.AI (Coursera), Dec 2025
- **Fundamentals of Reinforcement Learning** – University of Alberta / AMII (Coursera), Dec 2025
- **Machine Learning for All** – University of London (Coursera)
- **Quantum Computing and Programming Summer Training** – AIU & AleQCG, Jun–Dec 2025 (Grade: 298/300)
- **Algorithmic Toolbox** – UC San Diego (Coursera), Apr 2025
- **Python for Data Science, AI & Development** – IBM (Coursera)
- **Java Programming: Solving Problems with Software** – Duke University (Coursera), with Honors
- **Digital Egypt Pioneers Program – Microsoft Data Engineer** – Apr–Oct 2024, Team Leader Award
- **Associate Data Engineer in SQL** – DataCamp, Sep 2024
- **Data Engineer in Python** – DataCamp, Nov 2024

Full certification list with verification links: salahabdelhady.cv/certificate.html

Key Achievements

- Honored by the Prime Minister of Egypt, Minister of Communications and IT, and Minister of Higher Education at **Cairo ICT**, the largest international technology event in Egypt.
- Speaker at the **Bibliotheca Alexandrina**, delivering a large-scale public talk to **1,600+ attendees** on AI, technology, and real-world applications.
- Delivered "**AI in Education: From Concept to Real Application**" at **Helwan University, Cairo** for professors and teaching assistants across disciplines — **59+ attendees** and over **2 hours** of hands-on discussion, turning any content into structured material, summaries and practice questions, and addressing the real challenges of lecture preparation, personalisation and education management.
- Co-founded a technology startup as **Co-Founder & CTO**, leading technical strategy, architecture and AI product development from December 2024 to August 2026.
- Represented my startup at **RiseUp Summit** at the Grand Egyptian Museum, managing an official booth and engaging with investors and ecosystem leaders.
- Founded the university AI community and delivered **10+ technical sessions** covering AI applications, tools, and real-world use cases.
- Presented at **Entrepreneurship Day** on "AI Tools for Business Innovation," showcasing practical AI applications for startups and businesses.
- Successfully completed the **InnovEgypt Program**, leading a multidisciplinary team to develop innovative solutions and gain hands-on entrepreneurship experience.
- Participated in the **New Beginning for Quality Assurance in Education** initiative at AIU, gaining exposure to academic accreditation, quality systems, and student empowerment.

Technical Skills

Cloud Platforms: Oracle Cloud Infrastructure (OCI), Microsoft Azure

Cloud Infrastructure & Networking: OCI VCN, Azure VNets, Private Endpoints, NSGs, Azure Bastion, Load Balancers, Azure Front Door, WAF, API Management, Network Security

Infrastructure as Code & DevOps: Terraform, Docker, GitHub Actions, CI/CD, Infrastructure as Code, Git, Containerization

Containers & Kubernetes: Kubernetes, Oracle Kubernetes Engine (OKE), Azure Container Apps, Azure Container Registry (ACR), Oracle Container Image Registry (OCIR)

Cloud Security & Identity: OCI IAM, Azure Entra ID, Managed Identity, Key Vault, RBAC, Least Privilege, Secrets Management, Checkov, Gitleaks

Cloud Data Services: Azure Data Factory, Azure SQL, Cosmos DB, Blob Storage, Data Lake, Databricks, Synapse Analytics, SQL, PySpark

AI & Generative AI: Machine Learning, Deep Learning, NLP, LLM Applications, RAG, Vector Search, Embeddings, Prompt Engineering, AI Agents, Azure OpenAI, TensorFlow, Scikit-learn

Programming & Software Engineering: Python, C#, C++, Java, SQL, .NET, ASP.NET Core, REST APIs, Microservices, OOP

Web & Mobile Development: Next.js, React, TypeScript, Tailwind CSS, Cross-Platform Mobile Development, Full-Stack Development, Backend Systems, Databases

Soft Skills: Leadership, Research Mindset, Team Collaboration, Communication, Public Speaking, Mentoring, Technical Presentation, Entrepreneurship

Volunteering & Community Engagement

Member

Vocational Rehabilitation Center (UCCD)

- Contribute to creating inclusive educational and vocational opportunities.
- Help develop assistive technology solutions for students with special needs.

AI Educator Volunteer

- Conducted free AI literacy workshops for underprivileged communities.
- Volunteered as a mentor for high school students interested in technology.
- Organized coding bootcamps for women in STEM fields.

Languages

Arabic: Native · **English:** Fluent