AHMED BAHAAELDIN DARWISH

Personal

Name
AHMED BAHAAELDIN DARWISH

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Email
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Gender
Male

Nationality
Egyptian

Marital status
Married

LinkedIn
Ahmed Bahaaeldin Darwish | LinkedIn

Tech. Interests
- AI/ML
- Blockchain
- 5G, Open RAN
- Cloud
- NBIoT
- Programming (Python)
- Kubernetes

Languages

English   Fluent

Arabic   Native

Seeking a challenging role to leverage my 16+ years of experience in innovation. Proven track record in building automation, leading teams, and developing innovative AI solutions. Proven leadership and entrepreneurial, startup mindset. Eager to contribute to impactful AI projects and drive growth.

Work Experience.

AI and Innovation Lead for E2E Performance and Capacity   Oct 2024 - present
Rakuten Mobile, Japan, Tokyo
- Lead development of AI products like AI Maestro, a multi-agent system for autonomous data analysis and visualization to optimize network performance.
- Architect scalable AI solutions using LangGraph, integrated with Rakuten's internal AI systems.
- Pioneered an agentic RAG system for RMI E2E Technical Manuals, enhancing information retrieval and operational efficiency.
- Drive innovation, contributing to the company's IP portfolio through multiple patent filings for novel AI applications in telecom.
- Mentor development teams in engineering best practices for building robust, production-ready AI solutions.

AI and Innovation Lead for Site Management   Aug 2023 – Oct 2024
Rakuten Symphony, Japan, Tokyo
- Lead the AI Nization team for the mobility product line at Rakuten Symphony, focusing on crafting and creating AI/ML use cases, PoC's, and Demos.
- Design and develop AI features essential for implementing comprehensive end-to-end automation workflows.
- Contribute to achieving a Zero-touch Mobile Network by integrating advanced AI solutions.
- Innovate and apply AI/ML technologies to enhance product capabilities and automate operations.
- Collaborate with cross-functional teams to align AI features with overall product strategy and objectives.

Senior Director, Sympulse Application Section   Jan 2023 – Aug 2023
Rakuten Symphony, Japan, Tokyo
- Develop and implement a comprehensive product strategy aligned with the company's vision and market opportunities.
- Lead market analysis, product innovation, and roadmap development.

Product Owner - Scrum Framework   June 2022 – Dec 2022
Rakuten Symphony, Japan, Tokyo
- Define and communicate the product's vision and mission with all stakeholders.
- Develop and maintain the product roadmap that outlines the product's strategic direction and priorities.
- Manage the product backlogs, define user stories, and ensure the team delivers high-quality products that meet customer requirements.
- Work closely with the development team to ensure that the product meets the desired functionality, quality, and performance standards.
- Continuously research and identify new market opportunities, technologies, and trends to ensure the product remains competitive and innovative.
- Collaborate with the legal team to identify and address any potential patent infringement cases related to the product.

Previous work Experience
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CEM Expert   Jan 2015 – June 2022
Huawei, Saudi Arabia, Riyadh

Pre-Launch Optimization Engineer   Nov 2010 - Dec 2014
NOKIA, Saudi Arabia, Riyadh

Telecom Field Engineer Team Lead   Jul 2009 - Oct 2010
Al-Osais, Dammam, KSA

Radio Drive Test Engineer ICT, Cairo, Egypt   Sep 2007 - Jun 2009

Education and Qualifications

Bachelor's degree in electrical and computer Engineering   Sep 2001 - Aug 2007

Higher Technological Institute 10th of Ramadan City, Egypt, Cairo

- Grade: Good.
- B.Sc. Project Name: Implementation of IS-95 CDMA system on FPGA.
- B.Sc. Project Grade: Excellent.

Skills

Generative AI
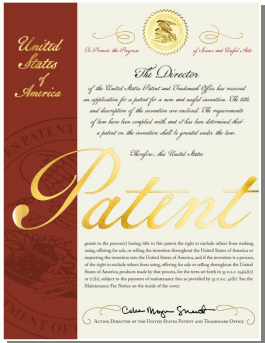
Data Analysis

Power BI

SQL

Python

Some of the publications/projects

- SYSTEM, METHOD, AND MEDIUM FOR BLOCKCHAIN-ENABLED MICROWAVE ANTENNAS U.S. Patent No. US 12,308,894 B2 (granted)
  U.S. Patent Application Publication No. 2024/0250759
  Patent e-Grant Certificate: https://abdarwish.short.gy/patent-pdf1
- SYSTEM, METHOD AND NON-TRANSITORY COMPUTER READABLE MEDIUM FOR AN INTERNET-ENABLED NETWORK RADIO NODE
  U.S. Patent No. US 12,328,299 B2 (granted)
  U.S. Patent Application Publication No. 2025/0274435
  Patent e-Grant Certificate: https://abdarwish.short.gy/patent-pdf2
- Advanced SQL AI Agent using LangGraph (Multi-ai agents)
  Link: Advanced_AI_SQL_Agent
- Advanced AI Chatbot RAG using LlamaIndex, LangChain
  Link: Advanced_AI_ChatBot
- CrewAI/AutoGen in telecom
  Link: Multi-AI Agents in telecom
- Interior Design Using Stable Diffusion Models.
- Professional Personal Image generator using SDXL, ControlNet and InstantID.
  Link: Professional Personal Image Generation
- Quick Adhoc
  Link: Quick_Adhoc
- EasyOokla Desktop Application
  Link: EasyOokla_App
- Image Detection using YOLOv10 for Site Manager Product
- AI Intent Recognition "Router" using BERT Model.

Courses/Certificates

- 2nd Place R-Pitch Program – "ZenSpace AI, Interior Design using AI"
- Certified Blockchain Expert
- IBM Data Science Professional Certificate
- 5G System in Depth
- CWNA
- HCIA Big Data
- HCIA 5G
- Leadership
- NEBOSH
- PMP (Course)