

Eslam Aly

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PROFILE

Full-stack software engineer with strong experience building scalable applications using Flutter, React, Node.js, Firebase, and Python. Skilled in cloud infrastructure (AWS), DevOps (Docker, Kubernetes, GitHub Actions), and CI/CD automation. Hands-on experience integrating ML models into production systems and building research-grade optimization algorithms. Strong problem-solving skills with a focus on clean architecture, application security, and high-quality engineering standards.

EDUCATION

B.Sc. Software Engineering (English)

University of Europe for Applied Sciences, Germany · 2023 – Present

EXPERIENCE

IT Help Desk Specialist · Adam Tools, Kyiv · Feb 2021 – Feb 2022

- Resolved hardware/software issues and provided first-level technical support.

Requirements Engineer · DM Solutions, Cairo · Feb 2020 – Dec 2020

- Produced structured documentation for agile teams and shortened feedback cycles.
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SELECTED PROJECTS

StoX – Stock & Crypto App (Flutter/Firebase): Real-time charts, currency switching, global search.

Fake Face Detection (TensorFlow/Xception): Binary classifier for real vs. AI-generated faces.

N-Queens Solver (Python): DFS, Hill Climbing, SA & GA for N=10–200 with performance benchmarking.

AqarDot – Real Estate Platform (React/Node/MongoDB): Property listings, search, filters, media upload.

PUBLICATIONS

“Solving the N-Queens Problem with DFS, HC, SA & GA” – Accepted at IEEE INMIC 2025.

“Deepfake Detection (CNN Study)” – Published in Sciform, 6th IECAS 2025.

SKILLS

Languages: JavaScript, Dart, Python, SQL

Frontend: React, Flutter, Tailwind CSS

Backend: Node.js, Firebase, REST APIs

DevOps: Docker, Kubernetes, GitHub Actions, Linux

Tools: Git, VS Code, Jira, Figma

CERTIFICATIONS

Python for Data Science, Linux Shell, App Security, DevOps Fundamentals, Docker/Kubernetes/OpenShift, Agile & Scrum, Git & GitHub, AWS Cloud Web App Builder, Data Analytics, Data Visualization, Excel for Analysis, Microservices & Serverless (IP), CI/CD, Intercultural Fluency, Digital Literacy, Academic Writing

LANGUAGES

Arabic (Native) · English (C2) · German (B1)