KHALED YAISH
AI SOFTWARE ENGINEER

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SUMMARY

Full-Stack & AI Engineer with real-world project experience. Built and deployed platforms for the Ministry of Telecom & IT and launched Memzy (500+ users). Completed Udacity programs in Full-Stack JavaScript and Machine Learning, applying TensorFlow and Scikit-learn to projects in donor prediction, image classification, customer segmentation, and apartment price prediction in Palestine. Currently expanding expertise into Generative and Agentic AI, aligning with cutting-edge R&D trends.

EDUCATION

B.Sc. in Computer Engineering (2020 - 2025)
An-Najah National University

TECHNICAL SKILLS

- **Web & Mobile Development:** React.js (with TypeScript/TSX), Node.js, Flutter, TailwindCSS
- **Programming Languages:** JavaScript, Python, Java, C++, C, Dart, PHP
- **Databases:** MongoDB, SQL Server, Firebase, Oracle.
- **AI & Machine Learning:** TensorFlow, Scikit-learn, XGBoost, CNNs, PCA, K-Means, SHAP, Computer Vision (InsightFace)
- **Version Control & Tools:** Git, GitHub, Microsoft Office (Excel, Word).
- **Operating Systems:** Windows, macOS.

ACHIEVEMENTS

IEEEXTREME 17.0 | Nov 2023
Ranked 3rd at the university level and 8th nationally in IEEEXtreme 17.0

Nasa Space Apps Challenge | Oct 2023
The 1st Place at the national level

PROFESSIONAL EXPERIENCE

- **Full-Stack JavaScript Developer – Udacity (Internship) | Aug 2025 – Present**
  - Developed a Node.js/Express API with TypeScript to dynamically resize and serve optimized images.
  - Implemented unit testing with Jasmine, linting, and formatting to ensure maintainability and scalability.
  - Designed the architecture to be enterprise-ready, supporting use cases like eCommerce image processing.

- **Machine Learning (TensorFlow) – Udacity (Internship) | Feb – Mar 2025**
  - Built a donor prediction model (Census data, 45K records) achieving +4% F1-score improvement via feature engineering and hyperparameter tuning.
  - Developed a flower image classifier (102 classes, 8K images) with 85% top-1 and 95% top-5 accuracy, deployed as a CLI tool.
  - Created a customer segmentation model (900 features → 20 via PCA) identifying 4 high-value customer clusters for targeted marketing.
  - Applied Decision Trees, AdaBoost, CNNs, PCA, and K-Means using TensorFlow, Scikit-learn, and Python.

- **Full-Stack Developer – Ministry of Telecom & IT Palestine (Internship) | Sep – Nov 2023**
  - Built a scalable sales management system, streamlining operations and improving data accessibility (React.js, Node.js, MongoDB).

- **Full-Stack Developer – Ministry of Telecom & IT Palestine (Internship) | Jul – Oct 2023**
  - Built a responsive web platform for the Ministry of Tourism & Antiquities, enhancing the Ministry's digital presence and user accessibility.

SIDE PROJECTS

- **Memzy – Educational Management Platform | Feb - June 2025**
  - Built and launched Memzy, an education platform (500+ users) with role-based dashboards and AI-powered face recognition, improving student engagement and operational efficiency.
  - Partnered with Sawt Al-Riyadeh for a real-world pilot, leading validation, UI/UX improvements, and go-to-market strategy.

- **Aqari Al Dhaki (Smart Real Estate Tool) | Jul - Aug 2025**
  - Developed a machine learning–based pricing tool for the Palestinian real estate market, scraping and processing thousands of listings from OpenSooq.
  - Trained and optimized an XGBoost regression model ($R^2 \approx 0.85$) and deployed it with FastAPI for instant apartment price prediction and deal evaluation.
  - Implemented SHAP explainability to highlight key factors influencing property prices, ensuring model transparency and trust.