

Khalid A. Khader

[AI Engineer | Specialist | Consultant](#)

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Msc. and Bsc. Computer Engineering(AI)

Software Engineer | Mid-Level AI Engineer

Palestinian Authority – West Bank

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SUMMARY:

Certified Azure AI Engineer with proven expertise in AI Agents, Generative AI, LLMs, Machine Learning, Deep Learning, and Data Engineering. Most of the experience leading AI-driven healthcare, HR analytics, and cybersecurity projects across international teams in the USA, Canada, Germany, Jordan, and Palestine. Former AI Production Team Lead at MENA DEVS, currently spearheading AI medical systems at MedPlus Solutions (USA) and consulting for Bitlab/Instclinic (Canada). Skilled at AI consulting, enterprise deployment, and full-stack software engineering. Recognized speaker and trainer in AI and deep learning with a strong record of research, publications, and curriculum development.

PROFESSIONAL SKILLS:

Artificial Intelligence & Machine Learning:

AI & ML Frameworks:

Vertex AI, AWS Bedrock, Gemini, OpenAI studio, TensorFlow, Keras, PyTorch, OpenCV, YOLO, Hugging Face, DeepSeek, LangChain, SHAP, LIME, Whisper and speech to text, STT, TTS Agents, LiveKit, document intelligence, RAG, Graph RAG.

Data Science & Analytics:

NumPy, Pandas, Matplotlib, Seaborn, SciPy, sci-kit-learn, XGBoost, LightGBM, Time Series Analysis.

Natural Language Processing (NLP):

NLTK, spaCy, OpenAI Studio, Microsoft Azure AI, Transformers, LLM Development & Tuning, Prompt Engineering, RAG Graph.

Generative AI:

GANs, Autoencoders, LLMs, Language Studio, Azure AI Vision Studio, Midjourney, DALL-E, Stable diffusion.

Software & Web Development:

Programming Languages:

Python, C++, C, C#, Java, JavaScript, SQL, PL/SQL, Assembly.

Back-End:

Fast API, Flask, Django, ASP.NET Core, Express.js, Node.js, Java Spring Boot, Oracle APEX PL/SQL, Java Mobile Development.

Front-End:

React.js, HTML, CSS, JavaScript, AJAX, XML, Regex, Basic Angular.

Data Engineering & Cloud Technologies:

Big Data & ETL:

PySpark, Databricks, Dask, Apache Airflow, Azure Data Factory, Automated ML, n8n.

Databases:

Oracle SQL, MySQL, PostgreSQL, MSSQL, MongoDB, SQLite, Neo4J knowledge database, Firebase, Neo4J, AWS opensearch.

Business Intelligence & Data Visualization:

Tableau, Power BI, Knime, Oracle APEX, Streamlit, Plotly.

Other Technical Expertise:

DevOps & Deployment:

Azure, GCP, AWS, Docker, Linux, Git, GitHub, Bitbucket, JIRA RunPod.

Networking & API Testing:

Postman, REST APIs, Google Colab.

Embedded Systems & Hardware:

Multisim, VHDL, Verilog, SystemVerilog.

Soft Skills:

- Strong leadership & teamwork.
- Problem-solving & critical thinking.
- Effective communication & technical writing.
- Cross-functional collaboration.

WORK EXPERIENCE:

[MedidoHealth \(First Med Plus Solutions\), USA | AI Specialist](#)

July 2025 – Present

Leading advanced AI initiatives focused on medical prescription recognition, triage automation, and patient identification for U.S. and Colombian healthcare clients. Developed intelligent pharmacy systems by integrating Vision-Language Models, Graph RAG, and Vertex AI, alongside Neo4j graph databases and FastAPI-based AI microservices. Implemented scalable, secure, and compliant architectures leveraging Google Cloud, AWS Bedrock, and OpenAI Studio for multilingual medical AI systems. Collaborated across full-stack, AI, and DevOps workflows, ensuring HIPAA/PIPEDA compliance, performance optimization, and production-grade deployment.

[Bitlab / Instclinic, Canada | AI & Software Engineering Consultant](#)

Mar 2025 – Present

- Integrating Graph RAG, Azure AI Speech, Whisper v3 tuning, and Fast API/Nest JS systems into production healthcare workflows.
- Developing AI-powered medical systems using LLMs, speech-to-text, text-to-speech, and graph databases (Neo4J).
- Collaborating with international teams to deliver real-time healthcare AI services.

[MENA DEVS, Jordan | AI Production Team Lead](#)

Dec 2024 – May 2025 – contract

- Led a team of 25 AI Engineers in training LLMs and integrating them with Django, Flask, and React platforms.
- Delivered scalable AI platforms and tools for enterprise clients across MENA.

[AXSOS AG / AXSOS Academy, Germany | Data Science & ML Engineer](#)

- Collaborated with Coding Dojo – USA, part of Colorado University.
- Expertise in computer vision, deep learning, NLP, and databases.

- Utilized various frameworks and libraries including NumPy, Pandas, Matplotlib, Seaborn, Folium, sci-kit-learn, XGBoost, LightGBM, Keras, TensorFlow, SHAP, LIME, Statsmodels, Tableau, CNN, RNN, PyTorch, and time series analysis.
- Classified brain tumors using OpenCV and Tensorflow with Keras and PyTorch.
- Engaged in advanced machine learning using deep learning artificial neural networks (ANN).
- Currently serves as a data scientist in the digitalization department at AXSOS AG, specializing in Microsoft Azure AI.
- Managed the creation of the Data science and ML curriculum for AXSOS Academy.
- Worked as a project manager and delivered services related to prompt engineering and AI.
- Certified in MERN, Python (Django and Flask), and Java Spring Boot stacks.
- Contributed to the development of the ALGOS LABS project for AXSOS Academy.

Consultation Services (Freelance) | AI/Data Science Consultant

- **Data Scientist** – Remotely with KSA Clients – Dec 2024 – Feb 2025 – KSA
Start working as a data scientist for HR systems to create AI features for the HR systems. Created a Machine Learning model for the HR system to predict employee salary using textual data about him with the dashboard.
- **Data Processing and Machine Learning Consultant** Hebrew University and Al-Quds University Aug 2024 – Dec 2024
Consult a DNA professor to process DNA data to predict future cancers.
- **AI Consultant** – Remotely with Saudi clients – Feb 2024 – May 2024 – KSA
Deliver some AI services and tools for some projects in different domains, using Python and some BI tools such as Knime.
- **Team Lead for Smart Advising System** – Onsite Jenin – Sep 2021 – June 2022 – ARAB AMERICAN UNIVERSITY – Palestine
Creating a system using APEX Oracle and implementing artificial intelligence techniques. This system aims to assist our computer science engineering students of all educational levels by displaying their course plans and detailed course descriptions. [visit it](#)
- **Software developer** – Hybrid with Birzeit Legal Clinic – Mar 2023 – Oct 2023 – Palestine
Contribute as a volunteer to assist in creating a legal clinic system for Birzeit University.
- **Professional Mentor** – Remotely with TAP – Sep 2023 – June 2024 – Netherlands
Deliver some AI sessions and mentor sessions for their community.

Internship – EXALT Technologies

- **Full-time Front-End Development Intern** – Onsite Ramallah – June 2022 – Sep 2022 – EXALT Technologies – Palestine

I have learned HTML, CSS, and JavaScript, as well as Firebase database, Git, GitHub, AJAX, jQuery, regex for validation, and React JS. I have created many applications using JSX, React State, React Events, Reducers, JSON web tokens, Hooks, React Styling, Fragments, Portals, HTTP Requests, Connecting to Databases, React Router, Single-Page Applications (SPA), Deploying React Apps, Authentication, React Forms, Context API, Rest API, and some other APIs.

- **Full-time Design and Verification Engineer Intern** – Onsite Ramallah – May 2022 – June 2022 – EXALT Technologies – Palestine

Learned some basic concepts about Verilog programming language and System Verilog.

Projects:

- Worked on AI Voice(STT-LLM-TTS) medical agent using LiveKit.
- Worked on AI Voice medical(Patient-Doctor) notes summarizer.
- Worked on Handwritten Medical prescription AI project.
- Worked on Gpu Utilization project to utilize the gpu inference for small language models using Nvidia Tensor RT.
- Worked on Ethical and Scalable Deployment of Large Language Models for Arabic: A Comparative Study of GPT, LLaMA, DeepSeek, and Qwen project.
- Created a Machine Learning model for the HR system to predict employee salary using textual data about him with the dashboard.
- Worked on building an HR system that extracted data from CVs and used LLM to classify if the people were fit for the job or not.
- Worked as a consultant for an advertising app using AI by scraping users' data from social media, clustering the users then sending them automatic ads.
- Worked as a consultant for creating a healthcare platform for user personalization data.
- Worked as a consultant for cancer detection data processing using DNA data.
- Worked on creating data pipeline for healthcare data for cancer detection app.
- Worked on IOT attacks to create. Machine Learning model to check the attacks for the IOT devices which I achieved 99% of recall for this model.
- Worked on creating software Maintainability Index for software codes, to check the maintainability for the codes, I did that with my team by creating a dashboard for the code maintainability index.
- worked on developing a Deep Learning system that detects brain tumors using OpenCV and TensorFlow with Keras. I created a CNN model with 98% recall and accuracy. Additionally, I developed new models to classify Alzheimer's using X-ray scans with 94% accuracy and to classify COVID-19 X-rays with 89% accuracy. These models were deployed using a Flask web app that connected to a database to save log information and model tests. You can visit the web app to see it in action. [here](#)
- Worked on PIN side-channel attacks using machine learning involving creating multiple ML and DL models to target the PIN number. I discovered that the most effective model was Logistic Regression, with an accuracy of 85%.
- I have implemented OS protection using machine learning (ML) and deep learning (DL) techniques. I applied feature engineering and principal component analysis (PCA) to build a machine learning model for analyzing Microsoft Azure DLL file data on Windows 11, aiming to detect attacks. Our model achieved an accuracy of 78% and a recall rate of 99% on the testing data. Additionally, I used logistic regression to detect malware in Android data, achieving a testing accuracy of 98%.
- Cyber Attacks classifications using ML and DL with an accuracy of 93% for DL.
- I contributed to the development of the ALGO LABS project for AXSOS Academy with a team of specialists in React TS, JAVA SPRING, Mongo, and Postgres databases.

- I developed a system using APEX ORACLE that incorporates Artificial Intelligence techniques. The system is designed to assist our computer science engineering (CSE) students at all educational levels. It displays the courses in the student's curriculum along with detailed descriptions. You can access it here. [here](#).
 - I worked as a consultant partially while developing a Legal Clinic project for Birzeit University. [more](#)
 - Creating a simple CRM project for Palestinian Civil Defense – Tulkarm you can visit it [here](#).
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EDUCATION:

Master's Degree in Computer Engineering – Nov 2022 – July 2025

[Birzeit UNIVERSITY](#)

My main focus was on Machine Learning, Deep Learning, Computer vision, Image processing, and some cyber security, Networking, and Hardware systems, my thesis will be about Brain tumor classification using Image Processing, Computer vision, CNN, and more Deep Learning techniques.

Bachelor's Degree in Computer Systems Engineering – Sep 2018 – Sep 2022

[ARAB AMERICAN UNIVERSITY](#)

In 4 years instead of 5 with **very good**, my main focus was on Databases, web development, AI, Hardware systems, and Verilog.

CERTIFICATIONS & COURSES:

Deep learning using TensorFlow, and PyTorch– March 2024

[OpenCV University – USA](#)

Many courses in Data Science, Machine Learning, and Full Stack during my work at AXSOS AG.

Image processing and computer vision using Python – April 2024

[OpenCV University – USA](#)

Many courses in Data Science, Machine Learning, and Full Stack during my work at AXSOS AG.

Generative AI track – March 2025

[OpenCV University – USA](#)

Focusing on advanced modern generative AI models for Art(Videos, images, and textual data) and tuning.

Online courses – Nov 2022 – Oct 2024

[Coding dojo](#) – Part of [Colorado University USA](#)

Many courses in Data Science, Machine Learning, and Full Stack during my work at AXSOS AG.

Data Engineering Track – Oct 2024 – Dec 2024

[Data Camp – USA](#)

Certified Data Engineer using Python, by taking many courses in special topics in Data Engineering and data processing.

Microsoft Azure AI Engineer – May 2024 – Oct 2024

[Microsoft](#)

Certified Azure AI Engineer by Microsoft during my work in AXSOS AG.

HONORS & AWARDS

In My Bachelor Level I got GPA more than 90% 4 times in Bachelor of Computer Systems Engineering.

Publications and research:

Im working on publishing my master research about “Ethical and Scalable Deployment of Large Language Models for Arabic: A Comparative Study of GPT, LLaMA, DeepSeek, and Qwen” in IEEE access and aims to publish my research about brain tumors detection using CNN which will be my master thesis, I have four papers written in IEEE formats, the [first one](#) about Brain Tumors classifications, the [second](#) about Cyber attacks classifications, the third one for PIN recognition to detect side-channel attacks using DL, and the last one OS protection using ML.

Languages:

Arabic – Native

English – Fluent

Personal Information:

- Passport: Palestinian Passport active from 2023 to 2027.
 - Active High Tech Permission.
 - Marital status: single.
 - Date of birth: 10th May of 2000 Ramallah
 - Place of residence : Palestinian Authority – West Bank – Tulkarm
 - Palestinian driver's license: Active since 2018.
 - Nationality: Palestinian.
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Contact and Links:

- [Visit Khalid Website.](#)
 - [Visit Khalid Leet-Code Profile.](#)
 - [Visit Khalid GitHub Profile.](#)
 - [Visit Khalid LinkedIn Profile.](#)
 - [Visit Khalid Facebook Profile.](#)
 - [Visit Khalid AI Medical App.](#)
 - [Book a meeting with Khalid.](#)
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 - Email: Khalidalkhader@gmail.com
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References:

- Mr. Nasri Ladaa AXSOS ACADEMY, Khalid supervisor in AXSOS AG, ladaanasri@gmail.com.
- Mr. Saad Hroub NVIDIA, Khalid former supervisor in AXSOS AG, saad.hroub@gmail.com.