KHALID IQNAIBI

AI Engineer and Systems Developer

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PROFILE

Highly capable **AI engineer** and **systems developer** Self-taught since age 16. with **7 years** of Python experience, **4 years in applied machine learning**, and a **proven record of translating research into real-time production systems**. Creator of **Binder Software** and **lead developer of DoxMind, two AI-powered platforms already deployed and used by doctors in Palestine.** Skilled in **full AI pipeline development—from architecture and training to deployment and optimization** —along with **leadership experience guiding technical teams.** Passionate about building tools that solve hard problems, amplify intelligence, and operate reliably in the real world.

EXPERIENCE

Trusted Systems Co., *AI Developer (Acting Department CoLead)* 06/2025 – Present
Hebron, Palestine

Co-led the development of DoxMind, an **AI System** fine-tuned for **Arabic-English financial documents** with handwritten, scanned, and low-quality inputs.
Reduced pipeline time from 700s to <500ms, achieving ~95% field-level accuracy on key data fields.
Made **ready for deployment** with **Palestinian municipalities and others in both public and private sectors exited to use it to automate document workflows.**
Engineered a modular AI stack using PaddleOCR, SpaCy NER, ONNX Runtime, and TensorRT.
Designed a single-pass document parser achieving **sub-500ms latency.**
Mentored around 100 interns in software development and led research-to-deployment efforts across RAG systems and multiple other modules.

Diagnosis AI (Academic Research/Graduation Project), *AI Developer* 2024 – Present
Designed an **educational AI tool** to support medical students in learning clinical diagnosis and accessing structured insights from textbook material.
Built a system that maps free-text patient symptoms to likely diagnoses using **classification models and a vector database** containing textbooks and real world doctors reports and knowledge and a **scientific LLM (BioNimo)**.
Focused on interpretability, learning value, and textbook alignment, rather than raw predictive performance. **Gives the user a step by step walk through of the diagnosis, its confidence rate and exactly what it used to reach that conclusion from the text books line by line.**
Still under active research; not yet tested or deployed

Binder Software, *Founder & Lead Developer* 2022 – Present
Founded Binder Software to deliver high-utility tools to underserved real-world domains.
Created Binder Medical, used by 40+ physicians across clinics in Hebron with 1500+ patients, built after testing and outperforming multiple commercial alternatives. Now essential to daily patient tracking workflows.
Binder Medical became the only effective solution after testing multiple commercial alternatives.
Developed complementary tools:
Binder Filters & Oil – vehicle service & inventory manager
Binder Law – legal document processing prototype
Full-stack development using Flask, Firebase, SQLite, and CI/CD pipelines.

A.S.H Speech Classification (Research Project), *AI Developer* 2021 – Present
Built a speech understanding engine to **classify intent, emotion, and sentence type from spontaneous dialogue.**
Used hybrid NLP architecture combining classical methods with LLM-inspired strategies.
Stack: TensorFlow, SpaCy, NLTK, NumPy.
Still in research phase, not deployed for users.

Independent, *Game Developer* 2024 – 2025
Built games using Godot, with custom physics and logic, and 3D assets via Blender.

Solo Projects, *Web Systems Developer* 2023 – 2024
Independently built multiple full-stack web applications using React.js, Node.js, Firebase.
Focused on architecture, authentication, state management, and cloud deployment simulation.
Not production-deployed; built for learning and experimentation.

EDUCATION

B.Sc. in Computer Science, *Palestine Polytechnic University (PPU)* 2024 – Present
(Expected Graduation: 2028) Hebron, Palestine

B.Sc. in Computer Engineering (Completed 2 Years), 2021 – 2023
Cyprus International University (CIU) Nicosia, Cyprus
Built core skills in data structures, systems programming, algorithms, and backend development.
Laid foundations for Binder Software and early AI experiments.

Amideast Access Scholarship 08/2019 – 09/2021
Hebron, Palestine

TECHNICAL SKILLS

Languages
Python, JavaScript, SQL, C++, HTML/CSS, GDScript

Deployment
Docker, FastAPI, CI/CD, Kubernetes, Hugging Face Spaces

Game Dev & Simulation
Godot Engine, Blender, GDScript, C++

Leadership
Team mentoring, research-to-production delivery, AI architecture, and software development in general

AI & ML
OCR, NLP, YOLO, SpaCy, NER, TF-IDF, PaddleOCR, ONNX Runtime, Reinforcement Learning, Hugging Face, Scikit-learn, TensorFlow, Pandas, NumPy, NLTK, pyTorch.

Web & Backend
Flask, Firebase, SQLite, React.js, Node.js, REST APIs

Dev Environments
Linux, Windows

LANGUAGES

Arabic
Native

English
Advanced (written and spoken)

SELECTED ACHIEVEMENTS

Developed and deployed DoxMind, a real-time Arabic-English document parser now used by 5+ Palestinian municipalities.

Built Binder Medical, used by over 40 doctors managing 1,500+ patients—filling a critical gap in medical recordkeeping.

Built multiple AI prototypes across healthcare, speech, and legal domains, each technically validated on real-world data.

Delivered AI pipelines end-to-end—from model design to production deployment and 100 interns mentorship—before age 22.

References

Ahmad Alsaheb, CEO, Trusted Systems

Tamer Fakhoury, *Co lead AI department*, Trusted Systems