

Ibrahim Qusay Jasim

AI & Automation Engineering Student — Generative AI, LLM Systems & Full-Stack Development

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Automation Engineering & Artificial Intelligence student at Al-Nahrain University who builds complete AI and software products rather than isolated prototypes — spanning retrieval-augmented generation, locally trained small language models, backend APIs, and production web applications. Founder and technical product lead of Forsa, a student-led software and AI team delivering education, Arabic-language AI, water-resource intelligence, and commerce products. Working toward becoming an AI solutions architect building production-grade AI systems.

TECHNICAL SKILLS

AI & Machine Learning: Generative AI, LLMs & SLMs, RAG, Prompt Engineering, Embeddings & Semantic Search, Vector Databases, Model Orchestration, AI Safety Controls, Grounded Generation, Local Model Execution, Multi-Agent Systems, Arabic-Language AI

Frontend & Applications: React, Responsive Web Development, Bilingual Arabic/English & RTL Interfaces, UI/UX Implementation

Cloud & Dev Tools: Git, GitHub, CI/CD, Vercel, Heroku, Cloud Computing Fundamentals, VS Code, Cursor

Programming & Backend: Python, FastAPI, REST APIs, SQL, PostgreSQL, Backend Architecture, Data Pipelines, JavaScript

AI & Data Tools: Qdrant, Neon PostgreSQL, Ollama, Hugging Face, Groq, Mistral, Multilingual Embedding Models

Product & Systems: System Architecture, Product Requirements, Technical Documentation, Team Coordination, Project Planning

EXPERIENCE & LEADERSHIP

Founder & Technical Product Lead — Forsa

2024 – Present

Baghdad, Iraq / Hybrid · forsa.team

- Lead a student-led software and AI team building AI-powered applications, SaaS products, dashboards, and automation systems from concept through architecture, deployment, and iteration.
- Translate business problems into product requirements, system architecture, and development roadmaps across education, restaurant, commerce, and Arabic-language AI products.
- Coordinate technical direction, task allocation, and delivery across concurrent AI, backend, frontend, and UI/UX workstreams while prioritizing commercially viable opportunities in the Iraqi market.
- Established reusable development, deployment, and product-design practices adopted across the team's product line.

AI & Technology Trainer — AISER Academy

Jan 2026 – June 2026

Remote

- Designs and delivers practical technology training programs covering artificial intelligence, generative AI, digital tools, prompt engineering, automation concepts, and modern productivity workflows.
- Covers responsible AI usage, prompt design, generative AI workflows, practical automation, digital productivity, and effective interaction with modern AI systems.

Media, Public Relations & Institutional Activities Contributor — Al-Nahrain University, College of Information Engineering 2024 – Present

- Serve on the Media & Public Relations Committee, producing institutional communications, event coverage, and promotional materials, including the college's official introductory brochure.
- Served on the Protocol & Hospitality Committee for the college Career Conference and the DAAD international-study seminar, coordinating guest reception and event organization.
- Received three official letters of appreciation for institutional and design contributions.

SELECTED PROJECTS

Enki — Arabic-First AI Learning Platform (Ongoing)

enkis.app

FastAPI · React · Qdrant · Neon PostgreSQL · Groq · Mistral · Vercel · Heroku

- Architected a RAG pipeline with Qdrant semantic retrieval, groundedness checks, source attribution, and reranking/retry logic to ground an AI tutor across Math, Physics, Chemistry, Biology, and Arabic-language subjects for Iraqi sixth-grade students.
- Built a multi-model orchestration layer across Groq and Mistral providers with a FastAPI backend and React frontend, deployed on Vercel and Heroku.
- Designed adaptive ministry-style exams, lesson quizzes, daily study-streak questions, and student analytics on top of a ministry-question database.

MediArabic SLM — Arabic Medical Small Language Model (R&D, 2026)

Local training · Tokenization · RTX 5060 Ti (16GB VRAM)

- Designed and trained a ~60M-parameter Arabic language model from scratch on consumer hardware, covering data preparation, tokenization, architecture design, and evaluation.
- Built the model to explain medical terminology and simplify health information in accessible Arabic, with specialty-category recognition and refusal behavior for diagnosis or prescription requests.

Al-Nahrain AI — Water Resources Intelligence & Digital Twin Platform (Prototype, 2026)

- Designed a digital-twin-inspired platform concept for national-scale water-resource monitoring, with AI forecasting across 1-, 7-, 30-, and 90-day horizons and governorate-level risk indicators.
- Built scenario simulation and mitigation-recommendation workflows alongside an "Iraqi Water Expert" conversational assistant combining forecasting, dashboards, and decision support.

UR — Artificial Civilization Simulation (Experimental, 2026)

- Built a deterministic multi-agent simulation where autonomous agents begin without predefined language, government, or currency and develop emergent social behavior within a geography-, resource-, and time-constrained environment.
- Optimized simulation and rendering performance for real-time operation and built a retro-futuristic terminal observer dashboard.

Mahal — B2B Digital Storefront Platform (Functional Product)

- Built a bilingual storefront platform with a customer-facing store and an administrative management panel for digital product and inventory workflows.

Additional Designs

- **OrderFlow AI** — Intelligent Wholesale Order Intake and Processing: a designed system turning unstructured wholesale requests (WhatsApp, voice, Excel) into reviewable, structured order workflows.
- **StockMind AI** — Intelligent Inventory, Expiry, and Demand Forecasting: a designed system for monitoring inventory, batch expiry, warehouse distribution, and demand to keep operations ahead of risk.
- **PeopleOps AI** — Human Resources and Recruitment Automation: a designed human-in-the-loop recruiting, onboarding, and probation-tracking assistant that keeps final decisions with people.

EDUCATION

B.Sc. in Automation Engineering and Artificial Intelligence

2025 – 2028 · Baghdad, Iraq

Al-Nahrain University, College of Information Engineering

SELECTED CERTIFICATIONS

Anthropic — Claude Architect

Google — Gemini Certified Educator

DeepLearning.AI — Introduction to Large Language Models; Introduction to Generative AI; ChatGPT for Everyone

IBM — Introduction to Software Engineering; Generative AI and Large Language Models

DataCamp — Prompt Engineering; Understanding Cloud Computing; Introduction to Git; Intermediate Git; AWS Concepts

AWARDS & RECOGNITION

- Selected as one of nine students from the College of Information Engineering to participate in the Iraqi television program "Dinar Plus."
- Recipient of three official letters of appreciation for media, design, and institutional-communication contributions to Al-Nahrain University.

LANGUAGES

Arabic — Native · English — Fluent