

Khalid Al Dosari | AI Engineer

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Summary

NVIDIA-Certified Associate: Generative AI LLMs (**NCA-GENL**), senior Computer Science student and Tuwaiq Academy alumnus specializing in **AI Engineering, MLOps, and Agentic Systems**. Experienced in building end-to-end solutions and designing autonomous multi-agent pipelines, fine-tuned ML workflows, and full-stack web applications, with a proven ability to architect scalable, production-ready AI systems that transform raw data into deployed products.

Education

- Building and Developing AI Models Bootcamp (200 Hours)**, *Tuwaiq Academy* 06/2026 – Present
- Intensive **200-hour** applied bootcamp focusing on AI engineering, deep learning architectures, transformer-based NLP, computer vision pipelines, LLMs, and agentic workflows with weekly production deliverables.
- Bachelor of Science in Computer Science**, *Imam Mohammad Ibn Saud Islamic University* 08/2022 – Present
- Focused on **software engineering, machine learning, deep learning, and algorithm design**, applying core CS principles directly to architecting and deploying full-stack AI platforms.

Skills

- AI & Machine Learning:** LLMs, Agentic Workflows, data science, machine learning, deep learning, Computer Vision, NLP, transformers, MLOps, Reinforcement Learning, RAG, AI-Native Engineering, CNNs, RNNs, Prompt Engineering.
- Full-Stack Engineering:** Python, Java, JavaScript, TypeScript, FastAPI, Next.js, React, Spring Boot, Maven, RESTful APIs, HTML/CSS, Tailwind CSS, Git/GitHub, Docker.
- Data & Cloud Infrastructure:** PostgreSQL, MongoDB, MySQL, Modal (Serverless).
- Soft Skills:** Leadership, Teamwork, Project Management, Problem Solving, Communication, Knowledge Sharing.
- Languages:** Arabic, English

Projects

- Namtheg - Agentic AutoML Platform** 🌐
- Architected an autonomous **7-step AutoML pipeline (LangChain, FastAPI, Next.js)** benchmarking **10 models** across Regression and Classification in less than **5 minutes**; deployed zero-cold-start inference APIs on **Modal** cloud volumes while capping LLM cost under **\$0.50 / 50K tokens** per run.
- Nahj - Agentic Elective Course & Prerequisite Engine** 🌐
- Engineered fully autonomous data pipelines that are then leveraged by **agentic** workflows and **LLM tool calling** to build an advisory platform evaluating cohort-versioned prerequisite rules and giving advised course recommendations per student, based on their GPA, skills and past grades orchestrated by **3 agents**; architected **7 numbered PostgreSQL** migrations ensuring zero data drift and strict schema integrity.
- 3ajib - AI Powered Experience Intelligence** 🌐
- Awarded **4th place** at the **PwC Middle East Hackathon 2026**; engineered a predictive ROI engine modeling destination impact up to **5M+ annual visitors (+54% dwell time, +33% revenue, +550% engagement)** with a bilingual stack.
- N-Queens CSP Solver** 🌐
- Implemented and compared **Backtracking, Forward Checking**, and **MAC** algorithms with **MRV, Degree**, and **LCV heuristics** in **Java & Spring Boot**, limiting exponential state space to **<1 second execution** for board sizes **N <= 32**.

Leadership & Experience

- Media & Design Lead**, *Student Advisory Council* 09/2025 – 09/2026
- Led media and design initiatives, leading cross-functional student teams and coordinating event campaigns.
- Part Time Zone Manager**, *THA Staffing* 01/2026 – 05/2026
- Supervised on-site operational teams of up to **35 members** across prestigious government and private conferences, ensuring **100% operational adherence**.

Certifications & Courses

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| NVIDIA-Certified Associate: Generative AI LLMs (NCA-GENL) | NVIDIA |
| Building & Developing AI Models Bootcamp (200 Hours) | Tuwaiq Academy |
| Building Transformer-Based NLP Applications | NVIDIA / Tuwaiq Academy |
| Professional LLM Training Program | SDAIA / NVIDIA |
| Accelerating End-to-End Data Science Workflows | NVIDIA |
| Agentic AI | DeepLearning.AI |