

AMER KHORSHEED

Software Engineer & AI Engineer

Production ML Systems & Full-Stack Applications

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SUMMARY

Senior Software Engineer and AI Engineer with a proven record of designing and delivering production-grade machine learning systems and full-stack applications. Skilled in establishing maintainable architectures, building robust data pipelines, and implementing automated workflows that turn raw data into measurable business outcomes. Experienced in operationalizing AI/ML models for scalability, reliability, monitoring, and regulatory compliance, consistently aligning technical solutions with strategic goals across government, higher-education, enterprise, and e-commerce environments.

TECHNICAL SKILLS

Programming Languages: Python (Expert), C# (Expert)

Frameworks & Backend: Laravel (Advanced), FastAPI, React (Advanced)

Databases: SQL Server (Expert), MySQL (Expert)

AI & Machine Learning: Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Forecasting Models, Recommendation Systems, OCR, Natural Language Processing (NLP)

Tools & Practices: Git, JIRA, Clean Architecture, Software Development Life Cycle (SDLC)

Languages: English (Professional), Arabic (Professional)

EXPERIENCE

Syrian Ministry of Defense

Jul 2026 – Present

AI Developer | Syria

- Develop and deploy AI-driven solutions supporting the ministry's internal operations and decision-making.
- Build and integrate machine learning, LLM, and data-processing components into secure internal systems.
- Apply clean architecture and full SDLC practices to ensure reliability, security, and maintainability.

Scientific Research Center

Sep 2026 – Present

AI Developer | Syria

- Design, build, and train custom AI and machine learning models tailored to the institution's operational and research needs.
- Develop data pipelines, preprocess datasets, and perform model fine-tuning and evaluation to ensure optimal performance.
- Deploy and integrate trained models into the center's systems and workflows to automate processes and enhance efficiency.

Syrian Private University

Dec 2025 – Present

Software Engineer & Academic Lecturer | Syria

- Developed and maintained the university's internal management system for admissions, student registration, and human resources, built on Laravel, React, and MySQL.
- Designed and built the University Electronic Registry, Correspondence, and Workflow Management System on Laravel and Filament with Arabic RTL support, digitizing registration, correspondence, and approval workflows.
- Rebuilt and enhanced the AI-powered Question Bank Generation System into a Retrieval-Augmented Generation (RAG) pipeline using FastAPI, ChromaDB, and OpenAI, aligned with SPU Faculty of AI Engineering regulations.
- Supervised multiple student capstone projects across the full software development lifecycle, providing technical mentorship, architecture guidance, and code reviews.

University Project

Dec 2023 – Sep 2025

AI Engineer | Syria

- Designed and developed a comprehensive ERP platform with modules for suppliers, customers, sales, inventory, and stock management.
- Built forecasting models for demand and sales-trend prediction, and a CV ranking system for automated candidate evaluation.
- Developed a recommendation system to personalize product suggestions and an OCR solution for document digitization.
- Implemented an AI assistant to streamline user interactions, applying clean architecture principles and full SDLC practices to ensure scalability, maintainability, and reliability.

E-Commerce Project

Jan 2020 – Jan 2022

Freelance Software Engineer | Syria

- Designed and delivered a full-scale e-commerce platform with end-to-end functionality, including product catalog, shopping cart, order management, and secure payment integration.
- Applied robust architectural patterns and lifecycle engineering practices to ensure performance, scalability, and maintainability.
- Collaborated with stakeholders to align technical solutions with business requirements, ensuring a seamless customer experience.

EDUCATION

Syrian Private University

Jan 2020 – Dec 2024

Bachelor of Informatics Engineering — Software Engineering & Artificial Intelligence | Syria

- Comprehensive coursework in software engineering, machine learning, deep learning, and full-stack development.