

HEMA OMER

Backend Developer | AI/ML Developer

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PROFESSIONAL SUMMARY

Backend & AI/ML Developer with 6+ years of experience building scalable backend systems, real-time data pipelines, and production AI infrastructure for telecom and fintech. Core strengths: Go and Python backend development, LLM deployment and RAG systems, and high-throughput network/data processing. Fluent in Kurdish, Arabic, and English.

TECHNICAL SKILLS

Languages: Go, Python, PHP, JavaScript / TypeScript, Dart, C++

Backend & AI/ML: Laravel, Express.js, Flask, REST APIs, SSE, vLLM, RAG, Qdrant, XGBoost, Prompt Engineering

Frontend: React.js, Next.js, Vue.js, React Native, Flutter, Tailwind CSS

Databases & Infra: MySQL, PostgreSQL, Vector Databases (Qdrant), Docker, GitHub, JIRA, GPU Server Config

Networking & Security: Deep Packet Inspection, ETSI LI (ASN.1/PCAP), VoIP/SIP/RTP, Penetration Testing

PROFESSIONAL EXPERIENCE

Ruyat Corp.

Sep 2025 – Present

Senior Backend Developer & AI Developer

Iraq

IoT Cabinet Monitoring Platform

- Built a monitoring platform for a large network of field cabinets, including role-based access control, region-scoped data access, and real-time online/offline status tracking.
- Built a multi-type alarm management system (voltage, temperature, water leakage, smoke, battery, rectifier faults) with tiered notification rules and live sensor-driven triggering.
- Parallelized the core data-ingestion pipeline to reduce update latency across the field-device network.

Messaging Platform — Backend

- Contributed to the backend of a high-traffic consumer messaging application, building message forwarding, reaction syncing, thread pinning, and self-destructing messages with server-side expiration.
- Built secure SMS OTP verification, phone registration, and user-blocking systems; integrated a third-party AI content-moderation API.
- Improved backend stability and security through concurrency debugging, memory-safety hardening, and proactive security audits.
- Deployed Elasticsearch to power a cross-channel message and conversation search-indexing service.

AI Customer Support Assistant (Project Lead)

- Led end-to-end delivery of a multilingual AI customer support chatbot for a telecom production platform, from model selection through deployment.
- Deployed and tuned a vLLM inference server (AWQ quantization) on GPU infrastructure, with a Qdrant-backed RAG pipeline for semantic search.
- Directed training of a multilingual intent classification model to auto-route queries across English, Arabic, and Kurdish.

Other Ruyat Projects

- Built a VoIP traffic analytics module for real-time SIP/RTP/RTCP protocol analysis and encrypted call detection via network fingerprinting.
- Designed and built an XGBoost ML pipeline to classify suspicious financial transactions across digital wallet products.
- Built and extended a Go-based telecommunications compliance service aligned with international regulatory standards (ETSI).

- Optimized large-dataset export performance and resolved bottlenecks in a mobility-analytics feature for a fiber network platform.

H3MA Agency

Jan 2023 – Mar 2025

Founder & Full Stack Solutions

Sulaymaniyah, Iraq

- Founded a digital transformation solution delivering custom web development and internal systems (sales, inventory, HR) for 16+ SME clients.
- Managed concurrent client pipelines using Agile methodology with JIRA.

We Are iQ Group

Jun 2023 – Aug 2023

Software Developer — University Internship

Sulaymaniyah, Iraq

- Processed multilingual records (Arabic, English, Kurdish) using Python and mapping/translation APIs to produce a clean, production-ready dataset.
- Conducted authorized penetration testing for an internal client project, contributing findings that led to improved security measures.

Potan

Jun 2022 – Jan 2023

Frontend Developer & Flutter Developer

Sulaymaniyah, Iraq

- Rebuilt the Joomlachi backend from scratch using Laravel and developed the admin dashboard frontend (React, Tailwind, RTK) for production-scale operations.
- Managed API integration and core functionality for the Joomlachi e-commerce mobile app (Flutter).

Early career (2020–2022) — freelance and part-time roles completed concurrently with full-time university study:

- **Speedway IQ** (Part-time, Dec 2020 – Apr 2022) — Full-stack development on internal tools and dashboards using Laravel and React.js.
- **Potan** (Freelance, Nov – Dec 2020) — UI/UX design (Adobe XD) for regional delivery apps and a corporate website.
- **SMARTMED** (Freelance, Jul – Sep 2020) — Built a CRM web application end-to-end using Laravel and Vue.js.

EDUCATION

Komar University of Science and Technology

Jan 2021 – May 2025

BSc in Computer Science

Sulaymaniyah, Iraq

- Founded the university's first technology club; mentored 20+ students in web development and Git.
- AUK Iraq Universities Hackathon — 3rd Place (2024): built a Kurdish natural-language medical voice assistant.

NOTABLE PERSONAL PROJECTS

Sahih Explorer — github.com/h3ma209/sahih-explorer

Stack: Next.js, TypeScript, Apache ECharts, Python

Full-stack app exploring Islamic scholarship across 24,000+ relational scholar profiles, with interactive network graphs mapping teacher-student lineages.

krain-sec — Cybersecurity Honeypot — github.com/h3ma209/krain-sec

Stack: Go, Multi-threading, Network Security

Open-source multi-protocol honeypot framework in Go to safely trap, log, and analyze malicious server connection behavior across HTTP, SSH, FTP, and more.

SAI — Security AI

Stack: Vue.js, Express.js, Flask, Machine Learning

AI-powered web application firewall using a Flask-based predictive layer to detect web attack patterns in real time.

CERTIFICATIONS & LANGUAGES

Awards: AUK Iraq Universities Hackathon — 3rd Place (2024) · Komar Tech Club — 2nd Place (2023)

Languages: Kurdish (Native) · English (Full Professional) · Arabic (Elementary)