

Adam Saraya

Backend/ML Engineer

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PROFILE

Backend & AI Engineer with hands-on experience building production-grade ML systems and scalable backend architectures. Skilled in FastAPI, Laravel, embedding-based models, and data pipeline design. Experienced in deploying recommendation engines and intelligent classification systems for real-world applications.

PROFESSIONAL EXPERIENCE

Freelance ML Engineer

07/2025 – 10/2025

Self-Employed

Remote

- Developed a personalized travel recommendation system using embedding-based ML and cosine similarity for preference-based district matching.
- Fine-tuned a SentenceTransformer model (triplet loss) to generate high-quality embeddings from travel descriptions.
- Built a FastAPI backend integrated with Supabase to dynamically filter districts, hotels, restaurants, and tours based on user inputs and budgets.
- Implemented AI-powered itinerary generation (Gemini) and optimized data processing with caching and efficient multi-table queries for fast responses.

Freelance ML Engineer

03/2025 – 06/2025

Self-Employed

Remote

- Developed an automated threat detection backend for the SafeWay mobile app using FastAPI and Firestore.
- Built a hybrid ML pipeline (binary + zero-shot classification) to detect and categorize threats from news articles.
- Integrated multilingual processing (language detection + translation) to ensure accurate cross-language classification.
- Implemented real-time ingestion, background processing, and evaluated model performance using precision, recall, and F1-score.

Backend & Data Science Intern

08/2024 – 05/2025

Bob Fleifel

Remote

- Developed secure REST APIs and RBAC for the BusLink fleet management platform (Laravel).
- Designed database schema and implemented Eloquent models for buses, routes, trips, and user roles.
- Built an admin dashboard with operational KPIs (trips/day, on-time %, route utilization).
- Engineered background jobs and ETL pipelines to aggregate data and improve analytics performance.

SKILLS

Backend Development:

FastAPI, Laravel, REST APIs, RBAC, Microservices

Machine Learning & AI:

Embeddings, Text Classification, Model Evaluation

Databases:

MySQL, Firestore, Supabase

Tools & DevOps:

Git, Docker, Postman

EDUCATION

Computer Science

Lebanese University

2023 – 2026

Zahle, Lebanon

LANGUAGES

Arabic

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English

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