

Emmanouil Akoumianakis

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SUMMARY

Backend and AI engineer building production systems that automate operations and support business decisions. Experienced delivering RAG pipelines, LLM-powered assistants, and backend integrations in real business environments. Strong at translating business processes into reliable services from requirements to deployment.

EXPERIENCE

Advance Services

Oct 2025 – Feb 2026

Backend & AI Automation Engineer

Heraklion, Greece

- Built production pricing decision platform supporting revenue management for ~100 rental properties, owning the system end-to-end from requirements to deployment.
- Designed ETL ingestion pipeline processing ~12GB CSV datasets, plus pricing logic, monitoring alerts, and revenue metrics.
- Resolved production server crash caused by CPU exhaustion through concurrency control improvements.
- Developed RAG AI assistant over ~500 documents with metadata classification, semantic search ranking, and hallucination reduction strategies.
- Delivered backend REST APIs and integrated them into internal UI workflows.

Kotsovolos

Jan 2025 – Sep 2025

Automation & Conversational AI Developer

Greece

- Designed and shipped conversational customer-support workflows across web and messaging channels, reducing manual intervention in support processes.
- Built AI agents with intent detection and knowledge retrieval to assist human support agents, including IVR orchestration and routing logic.
- Developed integrations and automation flows on enterprise platforms; debugged and optimized production logic to improve handling speed.
- Wrote supporting scripts and queries in JavaScript and SQL; collaborated with operational teams during AI agent POCs and adoption phases.

PROJECTS

BandFinder | *React, Node.js, PostgreSQL, pgvector, OpenAI*

- Built full-stack event platform with 60+ REST endpoints, SSE-based real-time messaging, and role-based access for users, bands, and admins.
- Implemented RAG semantic search with pgvector and OpenAI embeddings, a LangGraph AI assistant, and automated GPT-based review moderation.

TEDxUniversityofCrete 2026 Event App | *Node.js, Express, PostgreSQL, React, Vite*

- Leading development of digital event companion app, coordinating a team of student developers across separate frontend and backend repositories.
- Built ticket verification, workshop registration with waitlist auto-promotion, QR-based check-in, admin panel, and Resend-powered email flows.

EcoPortal Web UI | *Ruby on Rails, Docker, REST APIs*

- Contributed to Rails-based semantic platform for ontology search and management; improved frontend functionality and integration flows in a Dockerized environment.

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, JavaScript, TypeScript, SQL

Backend: Node.js, Express, Spring Boot, REST APIs, ETL pipelines

AI & Data: RAG pipelines, LLM integration, prompt engineering, semantic search, LangGraph, OpenAI API

Databases: PostgreSQL, pgvector, MongoDB

Infrastructure: Linux, Docker, Git, VPS deployment

EDUCATION

University of Crete

BSc Computer Science

2023 – Present

Heraklion, Greece

LANGUAGES

Greek – Native | English – Professional (C2)