







Elsayed Kamal Senior Software Developer

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✦ Summary

Senior Backend Engineer with 6+ years of experience designing and implementing **scalable, real-time, and AI-powered systems**. Expert in **Go, Python, PHP (Laravel), and Node.js**, with strong adherence to **clean architecture, SOLID principles**, and modern design patterns that ensure robust, maintainable backend solutions. Specialized in microservices, event-driven systems, and production-grade API platforms using **FastAPI, WebSockets**.

Hands-on experience with **AWS, Docker, Kafka, RabbitMQ**, and observability tools like **Prometheus and Jenkins**. Skilled in building smart workflows using **LangChain, OpenAI**, and vector databases like **Qdrant and Redis**. Deep database knowledge with **PostgreSQL, MongoDB, MySQL, Elasticsearch, and Couchbase**. Passionate about shipping clean, efficient systems that blend **AI, scalability, and developer-first experience**.

🎓 Education

Faculty of Computer and Information Sciences 

2017 - 2021 | Mansoura, Egypt

Bachelor's degree

Studied bioinformatics and medical algorithms with a focus on **computational biology, data-driven diagnostics, and algorithmic modeling of biological systems**.

{ } Open-Source

DB Copilot - Ai

Laravel Copilot database assistant for smart query generation and schema exploration.

XCopilot - Ai

Share your Copilot API with friends, chat, and build apps via an AI-enabled interface.

Ray - Laravel Debug Tool

Reversed the Ray Electron app into its original JavaScript source for deeper inspection and extension.

ShowBox - Streaming Api

Connects and integrates **Showbox** and **Febbox** APIs to search movies, retrieve metadata, and fetch download links from Febbox for end-user content delivery.

News Fetcher - News API Wrapper

Laravel-based API wrapper that aggregates news from **NewsAPI, The Guardian, and The New York Times**. Built with clean code and design patterns to ensure maintainability and scalability.

Classifier - Ai

Zero-shot classification API that enables text classification with no prior training.

Professional Experience

Innoscripta SE

Apr 2025 – present

Senior Software & AI Engineer

Munich, Bavaria, Germany

Driving the development of **AI-driven backend systems** and intelligent services across the organization. Leading initiatives around **retrieval-augmented generation (RAG)** and **context-aware AI workflows** to support smart assistants and automation tools. Collaborating with cross-functional teams to build scalable solutions that enhance product capabilities and developer experience.

Waseet.net

Oct 2023 – Apr 2025

Senior Software Engineer

New Cairo, Egypt

Built scalable backend systems with a focus on **data pipelines**, **real-time processing**, and **microservices**. Developed a custom **scraping engine**, storing and caching data via **MongoDB** and **Redis**. Designed **Kafka pipelines** for data migration from **Couchbase** to **MongoDB**, using parallel consumers and custom fixers. Built a **RabbitMQ-based queue system** and integrated diverse **APIs across multiple services** for seamless communication. Delivered a **multi-tenant dashboard** with **Filament** and implemented **DDoS protection** to secure auth flows.

Digital Roots GTC

Mar 2023 – Aug 2023 | Kuwait

Laravel Developer

Refactored legacy backend code for **performance and maintainability**, integrated multiple **payment gateways**, and optimized **transaction workflows**. Improved performance of existing **APIs** and worked on **inter-service API integrations** to ensure seamless communication across systems. Delivered **scalable** and **secure solutions** that boosted **system reliability** and **user experience**.

Freelancer

Aug 2019 – Oct 2021 | Egypt

Back End Developer

Worked with clients in **Saudi Arabia**, **Kuwait**, and **Egypt** to deliver dashboards using **Filament**, **Laravel**, and **MySQL**, integrating features like **real-time notifications** and **API integrations**. Ensured timely delivery of scalable, maintainable solutions.

Cloudvests

May 2021 – Dec 2021 | Amman

PHP Developer

Built a system to scrape auction data from multiple sources process it into a unified database, implement advanced filtering. Developed a configurable dashboard for data visualization and management, ensuring scalability and efficiency through optimized backend processing.

Skills

AI Engineering & Smart Systems

Hands-on experience building intelligent systems with **RAG pipelines**, **context-aware agents**, and **AI orchestration frameworks**. Skilled in designing solutions with **LangChain**, **LangGraph**, and vector search integrations. Strong grasp of **prompt engineering**, **LLM APIs**, and production-ready AI workflows.

Microservices & System Architecture

Experienced in designing **modular**, **resilient systems** using microservices architecture. Apply **clean architecture**, **SOLID principles**, and domain-driven design to build scalable platforms.

Real-Time Processing & Queues

Expertise in **Kafka**, **RabbitMQ**, and **WebSockets** for handling real-time event processing, streaming data, and job distribution in high-throughput environments.

Search, Similarity & Embeddings

Skilled in building **semantic search** and **embedding-based ranking systems** using vector databases and retrieval techniques to enhance data relevance and user experience.

Programming Languages & Frameworks

Proficient in **Go**, **Python**, **PHP (Laravel)**, **Node.js**, and foundational **JavaScript**. Experience developing backend systems with **FastAPI**, **Express**, and modern REST/gRPC APIs, with a strong emphasis on performance and maintainability.

Data Management & Optimization

Extensive work with **PostgreSQL**, **MongoDB**, **MySQL**, **Couchbase**, **DynamoDB**, and **Elasticsearch**. Skilled in optimizing data flows, query performance, and designing scalable storage strategies.

Cloud & DevOps Tooling

Practical experience with **Docker**, **NGINX**, **AWS**, and **CI/CD pipelines**. Build containerized, cloud-native services with seamless deployment and monitoring.

System Design & Technical Leadership

Experienced in designing **end-to-end architectures** for scalable systems, guiding technical decisions, reviewing codebases, and mentoring team members. Strong ability to **translate business needs into engineering solutions**, ensuring quality, scalability, and maintainability at every layer.

Organizations

CIS Team MU 

Backend Mentor

Jan 2020 - Mar 2021 | Mansoura, Egypt

Certificates


Backend Summer Training

- Mansoura University
- May 2019 · Jul 2019
- PHP & MYSQL

Web Development

- ITI
- May 2020 · Jul 2020
- PHP & Laravel & React

Apache Kafka

- Apache Kafka Series 
- Sept 2024