

Ali Mustafa

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PROFESSIONAL STATEMENT

Chief Technology Officer at EKT Katrangi, one of Lebanon's leading electronics and industrial technology suppliers, leading a ~10-person technology team across software engineering, IT infrastructure, and customer care engineering. Currently building EKT's in-house ERP, the ekt1.com e-commerce platform and its payment gateway integrations, and the company's digital solutions line: IoT devices, AI-powered smart cameras, and RFID tracking systems.

Senior Full-Stack Software Engineer, AI Developer & Technical Lead with 5+ years of experience designing, developing, and scaling enterprise-grade web applications, cloud-native platforms, and AI-powered systems. Specialized in Django, Django REST Framework, React.js, AWS, microservices architecture, multi-tenant SaaS platforms, and AI/LLM application development.

Experienced in building and integrating AI-powered applications using Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI agents, agentic workflows, and third-party AI APIs. Skilled in designing AI solutions that integrate with enterprise systems, business workflows, knowledge bases, and backend services.

Proven track record leading engineering teams, architecting high-availability systems, optimizing application performance, and delivering end-to-end software products for enterprise clients across healthcare, telecommunications, government, and private sectors.

Strong experience across cloud infrastructure, DevOps, CI/CD automation, distributed systems, system architecture, AI integration, workflow automation, and scalable backend development.

EDUCATION

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| 2022 – 2025 | Islamic University in Lebanon - Wardeniye, Lebanon
Faculty of Art and Sciences
BS in Computer Science
<i>GPA > 3.2</i> |
| 2018 – 2021 | Al Hassan High school, Beirut, Lebanon
Lebanese Baccalaureate in Life Science |
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WORK EXPERIENCE

EKT Katrangi – Jnah, Beirut, Lebanon

Chief Technology Officer

Sep 2026 – Present

- Own technology strategy and execution across the group, a leading Lebanese electronics and industrial technology company (retail, wholesale, and solutions) with an online catalog of 50,000+ products.
- Lead a ~10-person technology team spanning software engineering, IT infrastructure, and customer care engineering.
- Architect and build the company's in-house ERP covering inventory, procurement, sales, and finance.
- Own and enhance the e-commerce platform (ekt1.com), including payment gateway integrations and performance and stability improvements.
- Drive EKT's digital solutions portfolio: IoT device deployments, AI-powered smart camera systems, and RFID tagging and tracking for inventory, asset management, and retail.

Neruos – Beirut, Lebanon

Team Leader & Full-Stack Software Engineer

Feb 2023 – Present

- Lead a team of software engineers delivering enterprise-scale web applications from requirements gathering through production deployment.
- Architect and develop multi-tenant SaaS platforms using Django, Django REST Framework, React.js, PostgreSQL, Redis, and Docker.
- Design and maintain microservices-based architectures supporting high availability, scalability, and distributed workloads.
- Design and develop AI-powered applications integrating LLMs, RAG pipelines, AI agents, and intelligent workflow automation into enterprise platforms.
- Build agentic AI workflows capable of retrieving knowledge, reasoning over business context, invoking application services, and executing multi-step tasks.
- Integrate LLM and AI services with backend APIs, enterprise data sources, knowledge bases, and existing business workflows.
- Architect AI-powered assistants and knowledge-retrieval systems using Retrieval-Augmented Generation (RAG) to provide context-aware responses over enterprise data.
- Define software architecture standards, coding practices, AI integration patterns, and deployment workflows.
- Implement secure authentication and authorization systems including RBAC and multi-tenant isolation.
- Optimize database performance through indexing, query optimization, caching strategies, and asynchronous processing.
- Design and deploy cloud infrastructure using AWS services including EC2, RDS, S3, Route53, CloudFront, IAM, and Load Balancers.
- Establish CI/CD pipelines for automated testing and deployments.

- Collaborate directly with stakeholders and enterprise clients to translate business requirements into technical and AI-driven solutions.
- Mentor junior and mid-level developers through code reviews, architecture discussions, and technical guidance.
- Successfully delivered enterprise solutions for Samsung KSA, Huawei MTN, Yaminak KSA, Alazem KSA, and municipal government systems.

Freelance Senior Full-Stack Engineer

Feb 2024 – Present

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- Designed and developed custom SaaS platforms, business management systems, and workflow automation solutions for international clients.
 - Delivered end-to-end software solutions including backend architecture, frontend development, cloud deployment, and maintenance.
 - Built scalable RESTful APIs and integrated third-party services including payment gateways, SMS providers, email systems, and AI services.
 - Developed multi-tenant applications supporting multiple organizations with isolated data and configurable workflows.
 - Implemented AWS-based cloud infrastructures with monitoring, backup, security, and disaster recovery strategies.
 - Consulted clients on software architecture, database design, cloud migration, and scalability planning.
 - Managed complete software lifecycle from discovery and planning through deployment and post-launch support.
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PROJECT HIGHLIGHT

Multi-Tenant Poly Clinic Management Platform

Technical Lead & System Architect

- Architected and developed a large-scale multi-tenant healthcare management platform supporting multiple clinics and medical centers.
- Designed a microservices ecosystem covering Patient Management, Appointment Scheduling, Billing & Accounting, Attendance & HR, Reporting & Analytics, Notification Services, and AI-powered services.
- Designed and integrated AI-powered assistant capabilities using LLMs and Retrieval-Augmented Generation (RAG) for contextual knowledge retrieval and intelligent interaction with enterprise healthcare data.
- Developed agentic AI workflows that combine LLM reasoning, knowledge retrieval, backend services, and business logic to support multi-step tasks and intelligent automation.
- Integrated AI services with existing REST APIs and application workflows, enabling AI capabilities to interact with enterprise platform data and services.

- Implemented knowledge retrieval pipelines for querying and generating context-aware responses from internal system knowledge and documentation.
- Implemented tenant isolation strategies ensuring secure separation of client data across AI and non-AI services.
- Developed scalable APIs handling thousands of daily transactions.
- Introduced asynchronous task processing and event-driven communication between services.
- Deployed and maintained infrastructure on AWS with automated deployment pipelines.

SKILLS SUMMARY

Technical Skills:

- **Backend**

 - Python
 - Django
 - Django REST Framework
 - NodeJs
 - Nest.Js
 - FastAPI
 - Celery
 - Redis
 - REST APIs
 - Microservices Architecture
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- **Frontend**

 - React.js
 - Angular.JS
 - JQuery
 - TypeScript
 - JavaScript
 - HTML5
 - CSS3
 - Tailwind CSS
 - Material UI
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- **Databases**

 - PostgreSQL
 - SQLite
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- **SQL Server**
- **MySQL**
- **MongoDB**
- **Supabase**
- **Database Optimization**
- **Query Tuning**

- **Cloud & DevOps**

- **AWS EC2**
 - **AWS RDS**
 - **AWS S3**
 - **AWS Route53**
 - **AWS CloudFront**
 - **AWS IAM**
 - **Docker**
 - **Docker Compose**
 - **Nginx**
 - **DNS**
 - **linux**
 - **CI/CD Pipelines**
 - **GitHub Actions**
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- **AI & Automation**

- **Large Language Models (LLMs)**
 - **AI Application Development**
 - **AI Agents & Agentic Workflows**
 - **Retrieval-Augmented Generation (RAG)**
 - **Knowledge Retrieval & Semantic Search**
 - **LLM API Integration**
 - **AI-powered Assistants**
 - **Tool Calling & Function Calling**
 - **AI Workflow Automation**
 - **Context-aware AI Systems**
 - **OpenAI APIs**
 - **AI Integration with REST APIs**
 - **Enterprise AI Applications**
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- Tools: Claude, AntiGravity, Cursor, OpenCode Codex, Nvidia, Postman, VS Code, PyCharm, Termius, Draw.io
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Soft Skills:

- Problem-solving and analytical thinking
 - Strong diligence and commitment to quality
 - Positive and proactive team collaborator
 - Flexible and adaptable in dynamic work environments
 - Forceful communication and organizational skills
 - Technical Leadership
 - Team Mentoring
 - Agile Development
 - System Design
 - Client Communication
 - Requirements Analysis
 - Technology Management & Strategy
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LANGUAGES

Fluent in English, Arabic and French.

CERTIFICATIONS

SQL Certification · jQuery · Advanced React · Python Developer
