MUSTAFA KAMEL

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SUMMARY

Full-Stack Software Engineer specializing in scalable, AI-powered applications using React, TypeScript, and Laravel. Focused on SOLID principles, Clean Architecture, and cloud deployment to deliver maintainable, high-performance software solutions.

EDUCATION

SE Factory   Nov 2025 – Jan 2026
Full-Stack Software Engineering Bootcamp   *Beirut, Lebanon*

· Intensive training in Full-Stack development using React, TypeScript, and Laravel.
· Mastered cloud deployment (AWS), CI/CD pipelines, Docker Containerization, and AI integration (RAG systems, n8n workflows).
· Focused on secure authentication, MVC architecture, and Clean Code principles.

Lebanese International University   Oct 2022 – Jul 2025
Bachelor of Science in Computer Science   *Beirut, Lebanon*

· *Graduated with focus on Algorithms and Data Structures.*

PROJECTS

Intelligent Hiring ATS (Group Star Project)   ♁ **Client** | ♁ **Server**
Backend & Database Architect

An evidence-based hiring platform featuring a RAG-powered AI Copilot and autonomous workflow integrations.

· Designed the centralized database schema and workflow logic for the entire platform, managing data integrity across Candidate, Interview, and Offer modules.
· Developed the "Interview Copilot" using RAG and vector embeddings to allow recruiters to query candidate documents with evidence-based citations.
· Integrated **n8n** automation to trigger offer packet generation and email notifications based on pipeline status changes.

Smart Pantry & Meal Planner   ♁ **Client** | ♁ **Server**
Full-Stack Developer

A household inventory management system optimizing food waste and budget via AI-driven logic.

· Constructed a dynamic shopping list generator that autonomously calculates procurement needs by comparing weekly meal plan requirements against real-time pantry inventory.
· Orchestrated **n8n workflows** to trigger daily expiry alerts via Telegram and auto-generate weekly meal plan drafts using OpenAI based on available stock.
· Built a financial tracking module to monitor household expenses and an interactive dashboard highlighting expiring items to minimize food waste.

EXPERIENCE

SmartShift   ♁ **Repository** | Nov 2025 – Feb 2026
Full-Stack Software Engineer   *Beirut, Lebanon*

- Engineered an autonomous shift-swap validation microservice using **Python FastAPI** and **LangGraph state machines**, orchestrating 6-node conditional workflows with **GPT-4o** to analyze availability, fatigue risk, and safety compliance—achieving **sub-6-second** validation times with 95% decision accuracy.
- Devised a real-time fatigue scoring system combining quantitative shift patterns, qualitative wellness data, and psychological sentiment analysis (**0-100 scale**), proactively blocking high-risk scheduling decisions and alerting managers to employees approaching burnout thresholds.
- Implemented a **RAG-powered wellness journal** with **OpenAI embeddings** and **Qdrant vector database**, enabling employees to submit free-form health entries that are instantly parsed into structured data and indexed for natural language manager queries.
- Built an intelligent auto-scheduler using greedy optimization algorithms that generate weekly rosters while balancing operational coverage, employee preferences, fatigue limits, and labor law compliance across multiple departments.
- Architected a secure full-stack ecosystem: connecting a **React & TypeScript** frontend to a **Laravel 11** backend via **HttpOnly cookies** and **RBAC** middleware, managed a 20-table schema with async queue workers and continuous **AWS** deployment via CI/CD pipelines.

INZO   Jan 2025 – Nov 2025
Financial Operations Officer   *Remote*

- Managed operational fund flows including deposits, withdrawals, and transfers, maintaining 98% accuracy across financial ledgers.
- Mastered the data lifecycle of trading software, managing flows from wallet creation and account provisioning to customer data verification within enterprise CRM systems.
- Processed and validated high-volume financial transactions across diverse payment gateways, including Crypto (USDT, ETH) and Payeer, ensuring precise ledger reconciliation.
- Collaborated with technical teams to troubleshoot transaction state errors, bridging the gap between financial operations and platform functionality.

yy-regen   Oct 2025 – Nov 2025
Software Engineer Intern   *Beirut, Lebanon*

- Optimized web performance by implementing lazy-loading and browser caching strategies, reducing homepage load time by **30%**.
- Redesigned site navigation and footer UX, resulting in an **18% increase** in average session duration and a **12% decrease** in bounce rate.

TECHNICAL & SOFT SKILLS

- **Languages:** PHP, JavaScript, TypeScript, Python, Java, SQL.

- **Frameworks:** Laravel, React.js, Express.js.

- **Databases:** MySQL, MongoDB, Vector Databases (Qdrant, ChromaDB).

- **DevOps & Cloud:** Docker, CI/CD Pipelines, AWS, Git/GitHub.

- **AI & Automation:** RAG Architecture, LangChain, n8n Workflows, Prompt Engineering.

- **Soft Skills:** Collaboration, Rapid Adaptability, Fast Learner, Feedback-Driven Delivery.