

# AHMAD FREIJEH

Senior Full-Stack Engineer | AI Engineer | Technical Lead

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## Professional Summary

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Senior Full-Stack Engineer and Technical Lead with 10+ years of experience turning complex product ideas into production-grade systems. From scaling marketplaces, to shipping AI-powered health-tech platforms, to building ML SaaS products from scratch I thrive at the intersection of deep engineering and real business impact. Proven track record leading cross-functional teams, architecting systems that scale, and contributing to \$3.5M+ in funding raised across multiple companies. Currently building at the frontier of AI designing agentic workflows, classical ML pipelines, and LLM-powered products for real-world use.

## Work Experience

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### Technical Lead, Kilow

Riyadh, Saudi Arabia

November 2024 – March 2026

- Led a team of 5 engineers in architecting and delivering a health-tech platform end-to-end, covering patient tracking, smart device integration, AI-driven insights, and real-time doctor-patient communication.
- Engineered complex health workflows including injection schedules, consultation processes, longitudinal patient tracking, and multi-party care coordination translating clinical requirements into scalable, maintainable systems.
- Implemented RAG pipelines and fine-tuned language models to deliver personalized, context-aware health insights to clinicians and patients.
- Built a B2B layer connecting clinics, hospitals, and independent practitioners with provider-side scheduling, workflow management, and analytics dashboards.
- Managed end-to-end GCP infrastructure: deployment pipelines, autoscaling, Redis caching, PostgreSQL optimization, and zero-downtime release strategies.
- Drove architecture reviews, instituted CI/CD standards via GitHub Actions, and elevated engineering best practices across the team.
- Directly contributed to securing a \$2.5M investment round through robust technical execution and on-time product delivery.

### Technical Lead, Soror

Riyadh, Saudi Arabia

October 2021 – November 2024

- Led and mentored a team of 8 engineers across backend, mobile, and infrastructure tracks owning sprint planning, architecture decisions, and cross-team technical alignment.
- Built the entire product ecosystem from zero to production: backend APIs, React Native mobile apps for customers and service providers, admin tooling, and infrastructure, growing the platform to 300,000 bookings, 100,000 customers, and 200+ active providers in the field.
- Designed and implemented booking, scheduling, job lifecycle, and dispatch workflows, translating complex real-world operations into reliable and maintainable software systems.
- Led a full infrastructure migration from GCP to DigitalOcean and a stack refactor to Laravel, reducing operational costs while maintaining zero downtime.
- Administered DigitalOcean infrastructure with Docker, overseeing all deployments, rollout strategies, database optimization, and production incident response.
- Established a code review culture, structured release workflows, and engineering best practices that demonstrably improved team delivery reliability.
- Contributed directly to the company's \$1M seed investment round through effective technical execution and product stability.

### Technical Consultant, Musaid

Riyadh, Saudi Arabia

September 2023 – October 2024

- Designed and influenced system architecture and backend for a conversational AI startup, building scalable infrastructure for stateful chatbot interactions.
- Conducted a comprehensive infrastructure and codebase audit, identifying and resolving critical risks across performance, security, and scalability.

### Senior Developer, **Mangomolo**

Beirut, Lebanon

May 2021 – December 2021

- Built and maintained backend APIs in PHP/CodeIgniter powering streaming workflows, content lifecycle management, and user interactions for a live OTT platform.
- Deployed streaming client applications across web, mobile, and smart TV environments, integrating media delivery APIs and CDN pipelines for low-latency video at scale.

### Senior Software Developer, **ITG Holding**

Beirut, Lebanon

February 2020 – November 2021

- Constructed backend systems and REST APIs using Node.js (MERN stack), PHP, and Python across a multi-product environment spanning diverse business domains.
- Engineered frontend features in React.js and Vue.js, actively participating in architecture discussions and cross-team technical decision-making.

### Full Stack Developer, **Markit LLC | Toothpick SAL**

Lebanon

October 2018 – July 2019

- Developed B2B backend systems and REST APIs in Laravel for business workflow management, data operations, and third-party integrations.
- Delivered full-stack applications using Vue.js across the full development cycle from schema design to UI implementation.

### Web Developer, **MuchRoom | Lexium Law**

Beirut, Lebanon / Remote

January 2017 – February 2018

- Executed frontend and backend web development across contract and in-house engagements, building responsive and maintainable web applications.

## Private Contributions & Projects

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### **Lensiq** *Founder & CTO | Classical ML SaaS Platform*

- Architected a multi-tenant ML platform supporting scikit-learn, XGBoost, LightGBM, Random Forest, Logistic Regression, and Decision Tree models with automated model selection and quality gates.
- Built a FastAPI/Celery/Redis ML pipeline with per-user model isolation, SHAP-based explanations, and Qdrant vector search on a 3-droplet DigitalOcean infrastructure.
- Designed a multi-agent architecture (LangGraph + DeepSeek) triggering downstream actions Slack, email, webhooks, CRM via a single /predict endpoint with an execute boolean.
- Full production SaaS with four-tier pricing (Free, Pro, Business, Enterprise), Cloudflare R2, Resend, Sentry, and Ploi. Incorporated as a Delaware LLC.

### **Wink Drive** *Founder | Chat-Based Delivery App | Live on iOS & Android*

- Built a React Native delivery app (iOS & Android) with a Telegram bot for real-time driver coordination, backed by a Node.js/PostgreSQL backend deployed on DigitalOcean with Nginx, Redis caching, Twilio OTP authentication, and Cloudflare for DNS and DDoS protection.

### **RxGoblin** *Computer Vision | Handwritten Prescription OCR | [github.com/ahmadfreijeh/rx-goblin](https://github.com/ahmadfreijeh/rx-goblin)*

- Tackles one of healthcare's most error-prone workflows: reading handwritten prescriptions. Uploads an image and returns structured JSON with drug name, dosage, frequency, and prescriber. Pipeline runs TrOCR fine-tuned with LoRA via PEFT, OpenCV preprocessing, FDA drug dictionary fuzzy correction via rapidfuzz, and Flan-T5 for field extraction, all served via FastAPI.

### **BananaClock** *Computer Vision | ML Portfolio Project | [github.com/ahmadfreijeh/banana-clock](https://github.com/ahmadfreijeh/banana-clock)*

- Image classification system that determines banana ripeness stage from a photo, useful for supply chain freshness tracking and food waste reduction. Fine-tuned ResNet-50 via HuggingFace Transformers on a custom ripeness dataset, with a FastAPI inference endpoint and a Streamlit UI for live testing.

**deja-llm** *Open Source* | *npm Package* | [github.com/ahmadfreijeh/deja-llm](https://github.com/ahmadfreijeh/deja-llm)

- Self-hostable multi-layer semantic caching library for Node.js LLM applications. Uses Redis for exact-match caching and Qdrant for semantic similarity search, avoiding redundant LLM calls. Supports any LLM provider, returns full observability per result including latency breakdown and estimated cost saved.

## Skills

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**Languages:** JavaScript (Node.js, NestJS), TypeScript, Python, PHP (Laravel)

**Frontend:** React, Next.js, Vue.js, React Native, Tailwind CSS

**ML / AI:** scikit-learn, XGBoost, LightGBM, Random Forest, SHAP, FastAPI, RAG pipelines, LLM integration, Fine-tuning, Embeddings, Vector Search (Qdrant), OCR, TrOCR, Agentic workflows, LangGraph, Multi-agent systems

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, Firebase, Qdrant

**Infrastructure:** GCP, DigitalOcean, Docker, Terraform, GitHub Actions CI/CD, Nginx, Ploi, Forge, RunCloud, Zero-downtime deployments

**Architecture:** System design, Microservices, REST API design, Background job queues (Celery), Event-driven architecture

**Leadership:** Technical mentoring, Code reviews, Agile/Scrum, Architecture reviews, CI/CD standards

## Education

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**Lebanese International University** Bachelor of Science, Computer Science / Information Technology  
*Beirut, Lebanon • 2015 – 2018*

## Certificates

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<b>Associate AI Engineer for Developers</b> • DataCamp	2026
<b>Associate AI Engineer for Data Scientists</b> • DataCamp	2026
<b>CCNA Cisco Certified Network Associate</b> • Cisco	2017
<b>Associate Routing &amp; Switching</b> • Cisco	2017
<b>IT Essentials</b> • Cisco	2016