

Omar Lahkim

AI Software Engineer | Agentic AI & Full-Stack Delivery

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Portfolio: www.lahkimomar.com LinkedIn GitHub Twitter

TECHNICAL SKILLS

- **AI Engineering:** Production GenAI, multi-agent orchestration, tool calling, MCP integrations, RAG, semantic search, guardrails, human-in-the-loop, evaluation harnesses, LLM observability
- **Backend & Programming:** Python, TypeScript, JavaScript, SQL, PHP, FastAPI, REST APIs, asynchronous processing, Node.js, Laravel
- **Frontend & Mobile:** React, React Native, native SDK bridges, reusable design systems, performance engineering
- **Cloud & Data:** AWS, Azure, Azure Fabric, Power BI, MySQL, MongoDB, ETL, CI/CD
- **ML & Retrieval:** BM25, TF-IDF, LSI, CamemBERT, approximate-nearest-neighbor retrieval, Keras, TensorFlow Extended
- **Languages:** Arabic (Native), French (Bilingual), English (Proficient)

EDUCATION

- **Al Akhawayn University in Ifrane** Ifrane, Morocco
M.S. Software Engineering; GPA: 3.42 2020 – 2023
- **SUPINFO International University** Rabat, Morocco
B.S. Computer Science; 184 ECTS 2016 – 2019

PROFESSIONAL EXPERIENCE

- **BCG X / Boston Consulting Group** Casablanca, Morocco
AI Software Engineer May 2024 – Present
Industries: Insurance, Aviation, Automotive
 - **Production agentic AI:** Architected multi-agent LLM workflows and streaming React forms, tables and visualizations for complex enterprise processes, with fallback and human-review paths.
 - **AI architecture & safeguards:** Designed agent routing, tool integrations, schema validation, privacy controls and approval gates for auditable applications.
 - **Backend & integrations:** Built FastAPI/REST services, asynchronous workers and persistent conversational state; contributed to Azure Fabric and Power BI analytics solutions.
 - **LLM evaluation & operations:** Implemented tracing, prompt versioning and curated/synthetic evaluations; applied caching, traffic controls and documentation to monitor quality, latency and cost.
 - **Frontend performance:** Improved shared component architectures through code splitting, reusable design-system patterns and CI quality gates.

• Digitlift

Rabat, Morocco

Founding Member & Software Engineer

May 2021 – Jan 2024

Industries: LegalTech, FitTech, E-commerce, Consumer Retail

- **Applied AI & information retrieval:** Developed semantic search for legal documents using BM25, TF-IDF/LSI and CamemBERT-based representations, with nearest-neighbor indexing and retrieval evaluation.
- **Mobile & commercial platforms:** Built React Native coaching and e-commerce experiences, integrating Laravel/MySQL APIs, in-app purchases and local payment processing; optimized video-loading behavior.
- **Business application engineering:** Delivered React/Laravel point-of-sale and lightweight ERP workflows alongside retail web storefronts, collaborating with a five-person engineering team.
- **Data automation & integrations:** Implemented Python/SQLite data collection, scraping and transformation workflows, plus WordPress API integrations and automated data entry.
- **Engineering ownership:** Built and maintained web/mobile systems across engagements; contributed to architecture, code reviews, documentation and junior-developer mentoring.

• Digitecoop

Rabat, Morocco

Founding Member & Project Manager

Jul 2020 – Mar 2021

Industry: Software Services & Digital Consulting

- **Requirements & solution scoping:** Worked with clients to translate business needs into user stories, functional priorities, technical tasks and delivery milestones.
- **Agile delivery leadership:** Coordinated developers, assigned work, facilitated reviews and tracked progress while aligning implementation with stakeholder expectations.

• Econostic

Rabat, Morocco

Freelance Mobile Developer

Sep 2019 – Apr 2020

Industry: Workplace Technology & Facilities Management

- **Mobile workflows & native integration:** Built a React Native room-booking application with a reusable architecture and an SDK bridge for LED/device communication.

• Econostic

Rabat, Morocco

Mobile Developer Intern

May 2019 – Jul 2019

Industry: SME Business Software & Invoicing

- **Mobile business tools:** Developed a React Native invoicing application for independent professionals, supporting invoice creation, storage and management.

• Mobiletic

Meknes, Morocco

Front-End Developer Intern

Aug 2017 – Oct 2017

Industry: EdTech & E-learning

- **Frontend tooling & browser integration:** Built reusable CSS/JavaScript components and cross-window messaging for interactive e-learning workflows.