

KHALID LAMSADI

Software Engineer

I'm a backend-focused engineer with 5+ years building production systems, the last two on Morocco's largest classifieds platform. I like owning features end to end — from Kafka topics and database schemas to the React chart that sits on top.

Preferences

Go Backend TypeScript Node.js React PostgreSQL Elasticsearch AI Pipelines

PROFESSIONAL EXPERIENCE

Avito.ma | Backend Engineer

Casablanca, Morocco

Mar 2024 – Present

Own the ad lifecycle across 10+ Go microservices (feed ingestion, AI moderation, CRUD, performance tracking) at 10,000+ new ads per day.

Stack: Go, Kafka, Elasticsearch, PostgreSQL, Redis, GraphQL, React, Kubernetes

Key achievements:

- Built an AI moderation pipeline (Kafka + Avro, Gemini and OpenAI) that decides on 9,000+ ads a day at ~40s median latency, down from 2–7 minutes of manual review; low-confidence cases escalate to humans
- The pipeline raised per-moderator throughput ~2.5x (5K → 13K ads/month) and let the team consolidate from ~29 reviewers to 2
- Shipped cross-service features end to end: ad performance tracking (Redis accumulators, batched Elasticsearch sync, GraphQL API, React charts), a phone contact-type system on KSQL streams, and a WhatsApp payment notification pipeline
- Added a Kubernetes CronJob that watches the moderation queue and reconciles stuck items, so upstream incidents no longer fail silently
- Led Go 1.20 → 1.22 upgrades across the fleet and maintain Elasticsearch infra: French/Arabic synonyms, custom analyzers, v8 → v9 migration

StartupSquare | Full-Stack Software Engineer

Casablanca, Morocco

Feb 2021 – Mar 2024

Built end-to-end modules for a startup-program management platform — Programs, KPIs, Analytics, Events, Booking — backend API and Next.js UI in the same feature cycle.

Stack: TypeScript, Node.js, Next.js, React, MongoDB, Prisma, Redis, BullMQ

Key achievements:

- Designed a booking module with two-way Google Calendar OAuth2 sync, timezone-safe UTC handling and automated reminders; rolled out across 500+ programs, replacing Calendly and saving ~\$200/month
- Built ABAC authorization scoping access for 2,000+ startups and 20,000+ users across 30 countries
- Cut KPI dashboard load times from 1–5 minutes to under 500 ms with MongoDB aggregation pipelines and Redis caching

PROJECTS

Classify

github.com/KhalidLam/classify

Go HTTP microservice for text classification through LLM APIs — Redis response caching, OpenAI → Gemini provider fallback, and per-key rate limiting.

Stack: Go, OpenAI/Gemini APIs, Redis, Docker

KafkaScope

github.com/KhalidLam/kafkascope

Terminal UI for watching a Kafka cluster in real time: consumer-group lag, partition leadership and topic throughput at a glance.

Stack: Go, Sarama, Bubble Tea

CronDeck

github.com/KhalidLam/crondeck

Self-hosted social post scheduler; a BullMQ worker fans out jobs at the chosen time and retries platform-side failures, built to survive rate limits and partial outages.

Stack: Next.js, TypeScript, PostgreSQL, Prisma, tRPC, BullMQ

CubeMail

github.com/KhalidLam/cubemail

Webmail client built directly on the Gmail API — read, label, search and send with optimistic local state and a threaded view.

Stack: React, Gmail API, Chakra UI

CONTACTS

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SKILLS

Backend: Go, Node.js, TypeScript, REST, GraphQL

Data: PostgreSQL, MongoDB, Redis, Elasticsearch

Messaging: Apache Kafka, Avro, KSQL, BullMQ

Frontend: React, Next.js, Tailwind CSS, tRPC

Infra: Docker, Kubernetes, GitHub Actions, Travis CI, Spinnaker, Grafana

AI / LLM: OpenAI API, Gemini API, LLM pipeline design

AI Tools: Cursor, Claude Code, OpenCode

ACHIEVEMENTS

- Cut ad moderation time from 2–7 minutes to ~40 seconds by replacing a manual-review stack with an AI pipeline handling 9,000+ decisions a day
- Built multilingual search synonyms (French, Arabic, Darija) in Elasticsearch, improving zero-result queries on Morocco's largest marketplace
- Designed access control (ABAC) for a platform spanning 2,000+ startups in 30 countries
- Cut KPI dashboard load times from minutes to under 500 ms for 20,000+ users

EDUCATION

2015 – 2018

Licence Professionnelle en Génie Informatique

École Supérieure de Technologie, Casablanca

LANGUAGES

- Arabic — Native
- French — Professional
- English — Professional