Akram Moussaoui

Fullstack Developer, TypeScript / AWS Serverless

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PROFILE

Fullstack developer with 6 years of experience and an engineering degree in network and information security. At Groupe La Centrale, a French automotive marketplace, I build and run AWS serverless services (Lambda, Step Functions, SQS, DynamoDB, CDK) used by 8,000 car dealers, including AI-generated listing videos built with OLX. Technical lead on two of these projects.

EXPERIENCE

Groupe La Centrale

March 2023 to present

Fullstack Developer, Sales Enabler team · Paris

ad2video, AI-generated ad videos (lead since March 2026)

- Lead on the service that turns a car listing's photos, description and equipment into an ad video, built with OLX: about 3,000 videos a day for 8,000 dealers, in a team of 3 developers.
- Designed the whole generation pipeline: eligibility rules, calls to the video API, status callbacks. To stay under OLX's cap of 5,000 generations a day, I first deferred listings generated in the last 12 hours, then moved to a daily FIFO batch capped at 3,000 requests per run.
- Automatic renewal of videos after 105 days, using a conditional DynamoDB transaction that holds up against stream replays, with a cap of 5 generations per listing.
- Event-driven AWS architecture: SNS and SQS with partial batch retries, single-table DynamoDB encrypted with KMS, DynamoDB Streams, EventBridge, private API behind CloudFront and WAF, infrastructure in AWS CDK.
- Wrote the generation prompt with the team, worked directly with OLX's engineers, and owned monitoring and fixes after launch.

Call tracking and AI voicemail (lead since January 2025)

- Led dynamic call tracking: rotating Iovox number pools assigned per visit, so every call carries the listing, site and device it came from. Each number lives 30 minutes, and pools are released as soon as they are unused to stop billing.
- Built and published a TypeScript browser SDK on npm that allocates a tracked number and collects visit context: a 400 ms timeout so the phone number always renders, device and bot detection, 43 unit tests.
- AI voicemail: scoped it with Iovox, then added recordings, transcripts and AI summaries to the call history, call stats, and missed-call notifications through Braze.
- Async retries (SQS, DLQ) for the operator's transient errors, plus scripts that repair data drift (duplicate events, misaligned numbers, orphaned pools).

Pilot, dealer back office (since January 2024)

- Second contributor to the repository (110 commits) in a team of about ten developers. Shipped features end to end in Next.js (App Router, server actions, Jest tests): listing filters, the Boost page, archived listings, team member management.
- AI video card on the listing page, streamed with Suspense so server rendering no longer waits on the video service.
- Moved secrets to AWS Secrets Manager, read at runtime, to stay under the 4 KB Lambda environment limit, with a check at CDK synth. Locked source maps behind a CloudFront Function and fixed truncated Cognito permissions for users linked to many accounts.

Identity and permissions for business users (top contributor since March 2024)

- Serverless service (Lambda, Cognito, DynamoDB) that handles dealer accounts, sign-in and permissions, plus the authorizer protecting other teams' APIs.
- Migrated to the new commercial accounts system: event-driven permission sync (SQS, DynamoDB Streams), optimistic locking, and Cognito accounts enabled or disabled automatically from actual permissions.
- Bulk password reminders and resets orchestrated with Step Functions in batches of 1,000 to respect Cognito and SES quotas. Rolled Pilot out to 200 users, then to everyone.

B2B Showroom platform, rebuild and cloud migration (contributor, 2023)

- AWS serverless infrastructure in CDK, migration of authentication to AWS Cognito, Next.js front-end rebuild, billing architecture for business customers.

Bfansports

January 2022 to January 2023

Fullstack Developer

- Sports management dashboard: backend processing on AWS ECS and Lambda.
- AWS QuickSight dashboards, with automated migration and redeployment across environments.

Temtem One / Factory Digitale

January 2021 to January 2022

Backend Developer

- Node.js/Express backend serving a mobile e-commerce app.
- Push notifications with Firebase Cloud Messaging; reworked MongoDB schemas for product search.

PROJECTS

pr-dashboard **personal tool used at work, since September 2026**

Pull request review with Claude Code: reviews run in parallel in isolated git worktrees, every finding is challenged, Copilot gives a second opinion. Nothing reaches GitHub without my approval. 37 reviews posted across 15 repositories; feedback on 9 of my own PRs handled through the tool.

MyTaskFlow **mytaskflowmanagement.netlify.app**

Drag-and-drop Kanban in React, AWS Cognito sign-in (email and Google OAuth), Lambda and DynamoDB backend in CDK.

EDUCATION

Engineering degree in network and information security École nationale polytechnique (Algiers) 2020

SKILLS

Languages: TypeScript, JavaScript, Node.js
Front end: React, Next.js, react-hook-form, zod

AWS: Lambda, Step Functions, SQS, SNS, EventBridge, DynamoDB, API Gateway, CloudFront, WAF, Cognito, SES, Secrets Manager, S3, Kinesis, OpenSearch, ECS

Infrastructure and quality: AWS CDK, CloudFormation, CI/CD (CodePipeline, GitHub Actions), Jest, Vitest, Docker, OpenAPI, AsyncAPI, npm packages

Databases: DynamoDB, PostgreSQL, MongoDB

AI-assisted development: Claude Code (planning, TDD, review by two models, human sign-off before every PR), GitHub Copilot, MCP

Spoken languages: French: fluent, Arabic: fluent, English: good