

Ghazi Ben Dahmane

Head of R&D | Enterprise AI Platforms & Engineering Leadership

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Profile

Engineering leader with 10+ years of experience building production platforms in regulated and data-intensive environments. At Amundi, I lead a 10-engineer R&D team responsible for an enterprise AI platform serving 6,500 users across 15+ production services. Hands-on across distributed systems, Go, Python, TypeScript, LLM gateways, RAG, observability, cost control, and developer enablement.

Professional Experience

Amundi — Head of ALTO Studio R&D

January 2025 - Present | Paris, France

- Lead a 10-engineer R&D team responsible for architecture, delivery, recruitment, and cross-team adoption of Amundi's flagship AI platform, serving 6,500 users
- Architected a platform of 15+ production services spanning conversational AI, RAG agents, DeepSearch, document extraction, workflow automation, meeting notes, and research assistance
- Rebuilt the LLM Gateway from Django/PostgreSQL to Go, S3, and Delta Lake, supporting multi-provider routing, streaming, team and user budgets, and 200 GB of logs per day without the previous database bottleneck
- Standardized enterprise AI integration through reusable web components, knowledge-base APIs, and reporting APIs, enabling product teams to adopt shared capabilities instead of rebuilding them
- Introduced structured AI-assisted development workflows and reusable engineering practices across the team and wider developer community

Amundi — Full Stack Engineer

September 2021 - December 2024 | Paris, France

- Built ALTO Sustainability, an ESG scoring and analysis platform used daily by hundreds of analysts and portfolio managers
- Developed the Python calculation engine for 36 ESG methodologies across six investment perimeters
- Implemented Dagster pipelines for nightly processing and intraday data updates every six minutes
- Delivered the Angular analyst experience and established Jenkins CI/CD, Docker packaging, and GitLab workflows

Think-it — Full Stack Engineer

May - August 2021 | Remote

- Delivered a candidate assessment platform in four months, including secure code execution for C++, Rust, JavaScript, Python, and Go
- Built the AWS Lambda execution backend, migrated the frontend to Next.js and TypeScript, and integrated Cognito authentication and S3 reporting

Hexastack — Software Engineer

October 2020 - May 2021 | Tunis, Tunisia

- Developed a solar-panel cost simulation platform for location-based project estimates
- Built the React interface and Feathers.js service layer for the simulation workflow
- Integrated PostGIS to manage and query geographic data
- Created a separate geographic data visualization application with Vue.js, Vuex, and Sails.js

Finaxys — Full Stack Engineer

March - August 2020 | Paris, France

- Developed an online platform for creating and completing technical skills assessments
- Built the Node.js and Fastify back-end services and APIs
- Created the React and Redux front-end experience
- Implemented JWT-based authentication and protected application workflows

Wizzlabs — Tech Lead

February - December 2019 | Tunis, Tunisia

- Led the technical delivery of web platforms for two radio stations
- Designed a reusable Angular architecture with server-side rendering to improve search visibility
- Built the Node.js and GraphQL back end supporting media content and front-end applications
- Orchestrated the distributed platform with Docker Swarm on AWS
- Optimized cloud infrastructure to reduce hosting costs and improve scalability

Asayer — Software Developer

October 2017 - December 2018 | Tunis, Tunisia

- Developed browser-session recording capabilities for a QA automation platform
- Built Selenium-based replay workflows for automated regression testing
- Created isolated sandboxes for manual application testing
- Provisioned Android virtual machines accessible through WebRTC for remote testing
- Deployed containerized workloads with Kubernetes and AWS ECS
- Developed serverless APIs with AWS Lambda and Chalice

Wizzlabs — Software Developer

August 2015 - September 2016 | Tunis, Tunisia

- Developed an antivirus analysis platform inspired by VirusTotal
- Created Python workers running on Windows virtual machines
- Implemented passive and active malware-detection workflows
- Automated periodic application analysis and result collection
- Built a PHP dashboard for reviewing and reporting detection results

Core Skills

- **AI & LLM:** LLM gateways, RAG, LangChain, LangGraph, MCP, Azure OpenAI, AWS Bedrock, prompt engineering
- **Back-end & Data:** Python, Django, FastAPI, Go, Node.js, NestJS, PostgreSQL, pgvector, Elasticsearch, Redis, Dagster, Celery
- **Front-end:** React, TypeScript, Angular, Vite, TanStack, Tailwind CSS
- **Cloud & Platform:** AWS, Docker, Kubernetes, Jenkins, GitLab CI, Keycloak/OIDC, S3, Delta Lake, Sentry, ELK
- **Leadership:** Platform strategy, distributed architecture, team management, hiring, mentoring, cross-team enablement, cost governance

Education

ESPRIT — Engineering Degree in Software Engineering (2017-2020)

INSAT — Bachelor's Degree in Computer Science (2014-2017)

Languages

French (native) · Arabic (native) · English (professional)

Certifications & Recognition

- AWS Certified Solutions Architect - Associate — earned 2021
- Fundamentals of Deep Learning for Computer Vision
- 1st Place — HackFest 2015 and 2018 · 3rd Place — DeepHack
- Think-it Coding Challenge Winner