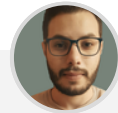


AYMEN GHARBI

Senior Lead Developer & Data Scientist



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BIO

Hello, I'm a lead developer with a background in both full-stack engineering and data science. I own technical direction, make architecture decisions, and still write code I think that matters. My roots are in data-heavy applications: NLP pipelines, recommender systems, analytics dashboards. That ML intuition shapes how I approach system design more broadly

EDUCATION

Machine Learning Certification



Stanford University
2021

Specialized Master, Massive Data Valuation



INSA - Enseeiht Toulouse
2019 - 2020

Engineering Degree, Automation & Industrial Informatics



INSAT Tunis
2013 - 2018

EXPERIENCES

Lead Developer KYU Associés

2021 - 2026

- Designed, developed, and maintained 9 full-stack data-visualization web applications for French OPCOs, providing actionable insights to support data-driven decision-making across all domains—primarily employment and training.
- Built data ingestion and processing workflows from APIs, web scraping (Python), and Excel sources, with storage across Elastic, MongoDB, and BigQuery.
- Managed authentication and authorization systems, including SSO integrations with Auth0, AWS Cognito, SAML, ADFS, and session/token-based access using service accounts.
- Implemented analytics, monitoring, and observability tools to track application health, optimize server load, and improve backend performance across production environments.
- Optimized API and frontend performance through multi-layer caching strategies, including Redis-based frontend caching and BigQuery query caching, significantly reducing response times and cloud resource consumption.
- Integrated Sentry monitoring to track API latency, request timings, errors, and performance bottlenecks across frontend and backend services.
- Leveraged Google Cloud AI platforms (Vertex AI, AutoML, and AI APIs) to enhance data processing, insights, and application features.
- Designed and integrated a Vertex AI-powered assistant capable of automatically summarizing dashboard pages containing KPIs and charts, highlighting market trends, key insights, and predictive projections for end users.
- Led major stack migrations, including:
 - Elastic → BigQuery
 - Express.js → NestJS → Next.js
 - GitLab → GitHub
 - Prefect pipelines → Dataform pipelines

Data Scientist (NLP) BCA Expertise

2020 - 2021

- Designed and developed a web application for article search, powered by a custom recommendation engine.
 - Implemented data scraping, cleaning, and preprocessing pipelines using Python (BeautifulSoup, NumPy, Pandas, scikit-learn).
 - Performed data exploration and topic modeling with Gensim and SciPy to extract key themes and enhance recommendation accuracy.
 - Built a React frontend and Flask API backend, fully dockerized for scalability and efficient deployment.
- Led a BCA e-reputation analysis, including:
 - Scraping and analyzing user feedback (comments, reactions, interactions).
 - Delivering interactive data visualizations through a React-based web application.

Lead Developer eDonec

2018 - 2019

- Developed web applications including e-commerce platforms, storefronts, and dashboards using ReactJS (frontend) and Node.js/Django (backend), as well as mobile applications (e-commerce, delivery) using React Native.
- Performed core Lead Developer responsibilities, including branch management, code reviews, trainee supervision, task planning, daily stand-ups, and JIRA workflow coordination.
- Delivered tailored features and solutions to address specific customer requirements.

CORE SKILLS

Web Dev.

NextJS, AngularJS, React, React Native, Truborepo, Flask, Tailwind, Figma, ExpressJS, Django, Typescript, Python, FastAPI, Async Processing

AI & BigData

Vertex AI, Background Jobs, AI APIs, NLP Pipelines, Prompt Engineering, Docker, API Optimization, Caching Strategies, Web Scraping

Data

MySQL, noSQL, PostgreSQL, Upstash/Redis, SQLite, MongoDB, Supabase, Prisma, Firebase

Cloud Tools

BigQuery, Dataform, Cloud Storage, DataProc, Cloud Run, Google Cloud functions, AmazonS3, Elastic, Vercel, Github, Gitlab, Copilot.

Ops & Observability

Docker, Kubernetes, GitHub Actions, GitLab CI/CD, Sentry, Logging & Alerting, Nginx, Linux, Bash Scripting, API Monitoring, Load Balancing

Soft Skills

Autonomy, Flexibility, Teamwork, Problem solving, Adaptability, Accountability