

# Jamel Eddine Khedhri

Senior Backend Engineer — Go & AI Systems

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## Executive Summary

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Senior Backend Engineer with 8+ years of experience specializing in Go-based distributed systems and production AI/RAG architectures. Led complex Java-to-Go migrations, modern frontend rewrites (Next.js, Nuxt.js), and SEO/conversion optimization at scale across GCP, Azure, and AWS. Currently driving next-generation AI initiatives at Société Générale Assurances — RAG systems, voice analysis, fraud detection, and document vision — within a dedicated innovation lab.

## Career History

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### Senior Software Engineer – TechLab

October 2024 – Present

*Société Générale Assurances*

- Architect and deliver internal insurance applications and cutting-edge AI projects within a dedicated innovation lab.
- Engineer new business applications from scratch, ensuring scalability, maintainability, and alignment with business objectives.
- Drive maintenance and continuous evolution of existing production applications.
- Oversee infrastructure management and streamline continuous integration pipelines.
- Design and deploy Retrieval-Augmented Generation (RAG) systems into production environments.
- Lead AI initiatives spanning voice analysis, fraud detection, and document vision and analysis.
- Tech stack: Go, Spring Boot, Vue.js, React, PostgreSQL, Docker, Kubernetes, Azure Cloud, OpenAI API, Weaviate

### Backend Software Engineer

May 2023 – May 2024

*ETX Majelan*

- Maintained and developed new features for a high-traffic mobile and web podcast application.
- Engineered integrations with multiple external podcast providers, expanding platform content coverage.
- Designed and exposed RESTful APIs consumed by external consumer partners.
- Spearheaded the migration from MySQL to Meilisearch, significantly improving search performance and relevance.
- Authored comprehensive technical documentation and maintained high unit test coverage using Testify.
- Collaborated within a team of 7 developers following Agile best practices.
- Tech stack: Go, MySQL, Redis, AWS, Docker, Docker Compose, DataDog, Meilisearch, Testify, REST API, Git

### Full-Stack Software Engineer

June 2020 – May 2023

*FIGARO Classifieds*

- Delivered across three concurrent product streams within the same engineering organisation,

covering new-build real estate (Figaro Immobilier Neuf), general property purchase and rental (Figaro Immobilier), and a leads middleware platform.

- — Figaro Immobilier Neuf: Maintained and enhanced a classified ads platform dedicated to new-build properties. Led the migration of a legacy Java backend to high-performance Go microservices. Drove the frontend migration from React.js to Next.js, enabling server-side rendering and improved performance. Continuously optimized SEO and conversion rate strategies, directly contributing to business growth. Team of 4 developers.
- — Figaro Immobilier: Maintained and enhanced a classified ads platform covering property purchase and rental. Led the migration of a legacy Java backend to scalable Go microservices. Drove the frontend migration from Vue.js to Nuxt.js, enabling server-side rendering and enhanced SEO performance. Continuously optimized SEO and conversion rate strategies to maximize organic traffic and lead generation. Team of 5 developers.
- — Leads Middleware: Architected and built from scratch a Go microservice leveraging Domain-Driven Design (DDD) to act as an intermediary between advertising partners and end clients. Engineered reliable lead delivery pipelines to client CRMs, ensuring data integrity and traceability. Conducted requirements analysis and designed the full DDD and technical software architecture. Coordinated API integration with diverse partners and clients. Team of 4 developers.
- Tech stack: Go, React.js, Next.js, Vue.js, Nuxt.js, Java, Spring Boot, Swagger, REST API, Sendgrid, Docker, Elasticsearch, Kubernetes, GCP, Bootstrap, Git, GitHub, GitLab, Testify, JUnit, Hibernate

### **Full-Stack Software Engineer – ECLI**

January 2020 – June 2020

*DevRap Orange*

- Designed and built from scratch a web application for managing maintenance technician interventions.
- Authored requirements documentation and contributed to functional decisions including workflow design.
- Contributed to technical specifications and software architecture definition.
- Delivered the full application using Agile/Scrum methodology within a team of 3 developers.
- Tech stack: Spring Boot, Angular 8, Activiti, REST, SOAP, Docker, Kubernetes, PaaS, Bootstrap, MariaDB, Maven, Git, GitLab, Swagger, JUnit, Hibernate, SonarQube

### **Full-Stack Software Engineer – Promess**

August 2019 – December 2019

*DevRap Orange*

- Architected and developed from scratch a web application for managing Orange product promotion challenges via SMS.
- Conducted requirements analysis, authored specifications, and drove functional decisions including workflow design.
- Designed and implemented the full technical and software architecture as sole developer.
- Tech stack: Spring Boot, Angular 8, REST, SOAP, Docker, Kubernetes, PaaS, Bootstrap, MariaDB, Maven, Git, GitLab, Swagger, JUnit, Hibernate, SonarQube

### **Full-Stack Software Engineer – SonarQube Dashboard**

May 2019 – August 2019

*DevRap Orange, Arcueil, France*

- Designed and built from scratch a web application for customizing the display of code quality metrics sourced from SonarQube.
- Conducted requirements analysis, authored specifications, and designed the full technical and software architecture.
- Tech stack: Spring Boot, Thymeleaf, REST, SOAP, Docker, Kubernetes, PaaS, Bootstrap, MySQL, MariaDB, Maven, Git, GitLab, Swagger, JUnit, Hibernate, SonarQube

## **Full-Stack Software Engineer – Decris**

January 2019 – May 2019

*DevRap Orange*, Arcueil, France

- Contributed to the full rewrite of a weather crisis management application using Agile/Scrum methodology.
- Participated in defining the technical and software architecture for the rewritten system.
- Delivered the application from scratch within a team of 6 developers.
- Tech stack: Spring Boot, Angular 8, REST, SOAP, Docker, Kubernetes, PaaS, Bootstrap, MySQL, Maven, Git, GitLab, Swagger, JUnit, Hibernate, SonarQube

## **Full-Stack Software Engineer – Atrade**

January 2017 – December 2018

*Arval*, Rueil-Malmaison, France

- Contributed to the full rewrite and ongoing maintenance of a used car sales process management application.
- Participated in defining the technical and software architecture.
- Delivered the application from scratch using Agile/Scrum methodology within a team of 5 developers.
- Tech stack: Spring Boot, Angular 8, REST, SOAP, Activiti, Bootstrap, Oracle, JSF, Maven, Git, Bitbucket, JIRA, Swagger, JUnit, Selenium, Hibernate, Jenkins, SonarQube

## **Full-Stack Software Engineer – MotorTrade Claims Module**

June 2017 –

December 2017

*Arval*, Rueil-Malmaison, France

- Developed a customer claims processing workflow module as a major enhancement to an existing used car sales management application.
- Conducted requirements analysis and contributed to functional decisions including workflow design.
- Delivered the module using Agile/Scrum methodology within a team of 5 developers.
- Tech stack: Spring Boot, Angular 6, Activiti, REST, SOAP, JSF, Maven, Git, Bitbucket, JIRA, Swagger, JUnit, Selenium, Hibernate, Jenkins, SonarQube

## **Backend Software Engineer – Orders Middleware**

February 2017 – May 2017

*Schneider Electric*, Levallois-Perret, France

- Engineered a web application gateway bridging multiple market sites with stock and order management systems.
- Designed interface contracts for all exposed APIs, ensuring consistency and interoperability.
- Developed and consumed both SOAP and REST web services.
- Implemented data indexing and search capabilities using Solr and Redis.
- Tech stack: Spring Boot, Solr, Redis, REST, SOAP, Oracle, JIRA, JUnit, Postman, Jenkins

## **Full-Stack Software Engineer – Bitaka Solution**

January 2016 – December 2016

*BITAKA Cards & Solutions*, Tunis, Tunisia

- Designed and developed web applications for selling electronic top-up cards and phone top-up cards.
- Conducted requirements analysis, authored specifications, and contributed to functional and technical decisions.
- Delivered the applications from scratch using Agile/Scrum methodology within a team of 6 developers.
- Tech stack: JEE, JSF, JPA, REST, SOAP, Tomcat, PostgreSQL, JIRA, GitLab, JUnit, Jenkins, Hibernate

## Education

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### Master's Degree in Computer Science (Research)

– 2015

*Faculté des Sciences de Tunis (FST)*

- Specialization: Business Intelligence Systems (Systèmes d'Information Décisionnels)
- Research-track program covering data warehousing, OLAP, data mining, and decision support systems.

## Areas of Expertise

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**Software Architecture & Design:** Microservices Architecture, Domain-Driven Design (DDD), Event-Driven Architecture, RESTful API Design, System Design & Scalability

**Artificial Intelligence & GenAI:** Retrieval-Augmented Generation (RAG), AI Agents, Model Context Protocol (MCP), Workflow Automation (N8N), Voice Analysis & NLP, Fraud Detection, Document Vision & Analysis, OpenAI API Integration, Weaviate

**Backend Development:** Go (Golang), Java, Spring Boot, REST Web Services, Swagger / OpenAPI

**DevOps & CI/CD:** Docker, Kubernetes, GitLab CI/CD, Jenkins, CircleCI, SonarQube, DataDog

**Cloud Platforms:** Google Cloud Platform (GCP), Microsoft Azure, Amazon Web Services (AWS)

**Databases & Data Stores:** PostgreSQL, MySQL, MariaDB, MongoDB, Redis, Oracle

**Search & Indexing:** Elasticsearch, Meilisearch, Apache Solr

**Frontend Development:** Next.js, Nuxt.js, React.js, Vue.js

**Legacy & Enterprise:** Java EE, Angular, JSF, SOAP Web Services, Hibernate / JPA, Activiti Workflow Engine, Maven

## Languages

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**Français:** Langue maternelle / Courant | **Anglais:** Professionnel courant | **Arabe:** Langue maternelle