

Younes DJAGHLOUL

Software Engineer Expert & Knowledge Management Specialist

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20+ yrs

Enterprise, EU institutions & R&D

Software
Engineering and
Knowledge
management

EU + Finance

CONTACT

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CORE STACK

- Java · Spring Boot
- Kafka · REST / SOAP
- Hibernate / JPA
- PostgreSQL · Oracle
- Python · Machine learning
- RDF · OWL · SPARQL

DATA & KNOWLEDGE MGMT

- Data catalogue · metadata
- Data modelling
- Knowledge engineering

LANGUAGES

Arabic — Native

French — C2

English — C1

EDUCATION

PhD in Computer Science Univ. Mentouri Constantine · 2003–2007

Master in Computer Science Univ. Mentouri Constantine · 2000–2003

Engineer in Computer Science Univ. Ferhat Abbas, Sétif · 1995–2000

Profile

Software Engineer Expert and Data and knowledge management specialist with 20+ years of experience designing, documenting and structuring data across EU institutions, banking and financial systems, and research organisations. Deep expertise in functional and semantic data modelling (ontologies, DCAT-AP, linked data), metadata and data-catalogue management, and data interoperability, built on a strong software engineering foundation (Java, Spring Boot, Oracle, PostgreSQL, Kafka). Used to turning business needs into well-defined, documented data sets while working across business, data and IT teams in multilingual environments.

Experience

Jun 2024 – Present

Software Engineer Expert

ARHS Group · Luxembourg

- Design and deliver full-stack, data-driven solutions leveraging Spring Boot, Hibernate/JPA, PostgreSQL, REST/SOAP and Kafka, with attention to data-model consistency and documentation.

Oct 2016 – Jun 2024

Senior IT Consultant

ARHS Cube · Luxembourg

- Contributed to the EU Open Data Portal, a flagship data catalogue giving centralised access to open datasets from EU institutions; worked on dataset metadata, data publication and data reuse.
- Drove DCAT-AP metadata-model integration (standardised dataset description and compliance) and spearheaded multilingual delivery across 24 languages, acting as Scrum Master.
- Optimised banking transaction search performance through a Kafka-based asynchronous messaging architecture with Spring Boot and Oracle backends, gaining hands-on knowledge of banking transaction data and processes.

- ▶ Engaged directly with EU stakeholders to clarify data requirements and definitions, and translate them into scalable, standards-compliant data models and technical solutions.
- ▶ Mentor junior engineers and define coding and documentation standards, ensuring high quality and maintainability across the delivery team.

Jan 2015 – Oct 2016

Researcher

Luxembourg Institute of Science and Technology · Luxembourg

- ▶ Conducted applied research within European-funded programmes including AAL and INTERREG, focused on smart ageing and cross-border data exchange.
- ▶ Developed semantic platforms and public data publication pipelines using Java EE, Elasticsearch, RDF/OWL and SPARQL, structuring and linking heterogeneous data sources into reusable, searchable knowledge.

Jul 2009 – Dec 2014

R&D Engineer

CRP Henri Tudor · Luxembourg

- ▶ Designed semantic data models, ontologies, RESTful services and ontology-based knowledge platforms for collaborative European research projects.
- ▶ Delivered contributions across SpONSOR, BE-GOOD, MEDiATE, TAO, CLAIRVOYANT, ACDC, SPOCS, and EXPERIMEDIA initiatives.

2000 – 2009

Lecturer · Analyst Programmer · Freelance Trainer

University of Msila, SDS Informatique & Independent · Algeria

- ▶ University lecturer in web technologies and software engineering; built business software in C, Delphi and Oracle; trained clients in XML, XSLT and data modelling.

Selected Projects

EU Open Data Portal

Semantic interoperability & linked-data modelling · Multilingual platform delivery (24 EU languages) · DCAT-AP standards compliance.

Financial Transaction Search Optimisation

Kafka-based asynchronous architecture · Spring Boot microservices · Oracle-backed query optimisation · Significant latency reduction for banking transaction retrieval.

European R&D Platforms (CRP Henri Tudor / LIST)

Ontology-driven collaborative care services · Recommender systems · Public open data publication · Contributions to 8+ EU-funded research consortia.