

Younes EDDOUGHMI

Founder • SELF-YED (SASU)



Web Software Solutions Expert & AI Solutions Integrator

20+ YEARS OF EXPERIENCE • JAVA/JEE • AI • DEVOPS

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🎓 Google Scholar



PROFILE

Software architect with more than 20 years of experience in the Java/JEE ecosystem, I help companies take their web applications from design all the way to production.

Since 2018, I have focused on bringing artificial intelligence into information systems: real-time computer vision, vector search and conversational agents (LLM, RAG).

My role

- ✓ Frame business needs and define the target architecture.
- ✓ Design robust, high-performance Java/JEE web applications.
- ✓ Integrate AI models into the IS through APIs and industrialise them (Docker, Kubernetes, AWS).
- ✓ Ensure quality: TDD/BDD, code review, load testing, documentation.

KEY HIGHLIGHTS

20+ years

Java / JEE in production

6 projects

AI & data delivered at Cyclope.ai / Vinci

10 assignments

Cyclope.ai, SFR, Total, Médiamétrie...



Java/JEE architecture

From developer to architect and technical lead, on business-critical web applications for SFR, Total, Médiamétrie, Manpower and GEFCO.



AI in production since 2018

Tunnel incident detection, carpool lane monitoring, plate matching, Areane RAG chatbot: from idea to operations.



DevOps & MLOps industrialisation

Containers, CI/CD, AWS cloud and observability to turn prototypes into reliable services.



Technical leadership

Technical lead, technical referent and Scrum Master for teams of 3 to 10 people.

JEE Architect, DevOps & AI Solutions Integrator

Cyclope.ai · Vinci Autoroutes

Design and production rollout of a range of AI systems for motorway operations, from requirements gathering to day-to-day operation.

Areane — RAG chatbot

Latest project

Customer support chatbot based on RAG, with hand-off to a human agent on request.

Hermes Qdrant Ollama Python PostgreSQL

DAI — Automatic Incident Detection

Real-time incident detection in tunnels, on a dedicated server.

JEE Python Kafka Docker PostgreSQL

Carpooling

Automatic counting of occupants per vehicle on the carpool lane.

AWS Python Kotlin MongoDB

Plate matching

Real-time vector search to match the same vehicle across images taken at several toll points.

AWS ELK Kibana Python Docker

Vehicle counting

Vehicle counting by type and by lane.

AWS EC2 S3 Python

Data Lake

Architecture and implementation of the data lake feeding the models.

S3 MongoDB Python Docker

RESPONSIBILITIES

- Supporting business owners in expressing their requirements.
- Hybrid JEE / Python software architecture for data processing and model serving.
- Industrialisation: Docker containers, AWS deployment (EC2, S3, Lambda, CloudWatch, IAM).
- Quality: TDD and BDD, code review, pair programming, test coverage tracked in Sonar.
- API load and availability testing with Gatling; technical documentation.

Java/JEE Technical Lead

Manpower · IT department

Rollout of the IT department's microservices projects, team of 3.

- Defined the software architecture and supported business owners (requirements and acceptance).
- Team design and development: work breakdown, code review, pair programming.
- Technical documentation: functional and technical specs, UML diagrams.

Spring Boot Spring Security RabbitMQ Keycloak Kubernetes AWS Jenkins

Java/JEE · GWT Technical Referent

Médiamétrie

Restit TV: web application presenting TV audience measurement data, team of 5 to 10.

- Team design and development, unit tests, BDD and Selenium.
- Built the reporting module with JasperReports.
- Jenkins pipelines, Docker / Docker Compose containerisation.

Java 8 Spring 4 GWT Akka Solr Redis Jenkins Pipeline Docker

Java/JEE · GWT Technical Referent

Médiatransports

Portal for managing advertising space (print and digital) in train stations, metro and buses, team of 7.

- Design, development and PDF document generation with JasperReports.
- Talend jobs for data migration.

Java 8 Spring 4 Hibernate/JPA jOOQ Liquibase PostgreSQL Talend

- Java/JEE · GWT Technical Referent

GEFCO

Parts return management portal for PSA Peugeot, General Motors and Renault, team of 4.

Java 7GWTGuiceMyBatisMockitoOracle

08/2012 – 02/2014
- Java/JEE Consultant · Web Services Architect · Scrum Master

SFR

sfr.fr "My Account" portal and a global Web Service exposing mobile and landline customer data to SFR applications, teams of 3 to 8.

- Portal load optimisation: 600,000 to 1,000,000 logins per day.
 - WSDL design, secured CXF services, SoapUI load testing.
 - Introduced and facilitated the Scrum methodology.

Spring 3CXFAxis2SOAP/RESTHibernateLDAPOracle

10/2009 – 06/2012
- Technical Manager & Project Architect

Total Group · Headquarters

THEIA: open-source web tool for creating and transferring subsidiaries' foreign exchange orders to Group Treasury in real time, with a validation workflow and strong authentication (PKI Multipass).

J2EESpringStrutsHibernateOracle

01/2009 – 09/2009
- J2EE Software Engineer

SAGEM Sécurité (Safran) · Atexo · Norsys

- SAGEM Sécurité** (05–12/2008): population identification and electoral registration application for Côte d'Ivoire.
 - Atexo** (05/2007–04/2008): open-source public tender management application for the City of Paris, SSO (JOSSO, WSSO, LDAP).
 - Norsys** (07/2005–04/2007): calculation engine and contract management for Mondial Assurance.

2005 – 2008

SKILLS

Web software solutions

JavaKotlinJEESpring BootSpring BatchHibernate/JPAKafkaRabbitMQKeycloakSwaggerPostgreSQLMongoDBRedis

AI solutions integration

PythonPyTorchTensorFlowKerasYOLOOpenCVNumPyOllamaQdrantHermesFastAPIFlask

DevOps & MLOps

DockerKubernetesGitLab CIJenkinsAWSEC2/S3/LambdaCloudWatchIAMELKSonarGatlingMaven

METHODS Agile ScrumTDDBDDUMLCode reviewPair programming

PROFESSIONAL TRAINING

10/2010

Scrum Master

Scrum Alliance · ref. 000117286

12/2015

Amazon Web Services

Developer training

LANGUAGES

French

Fluent

English

Professional

Arabic

Native

EDUCATION

2016 – 2021

PhD in Applied Mathematics & Physics, Computer Science

AI applied to road safety. Faculty of Science and Technology, Sultan Moulay Slimane University, Beni Mellal.

2005 – 2007

DESS (Master's) in Information Systems Engineering

Faculty of Sciences Semlalia, Marrakesh.

2003 – 2005

Applied Bachelor's degree (Maîtrise) in Computer Science

Faculty of Sciences Semlalia, Marrakesh.

2001 – 2003

C.U.E.S (University Certificate of Scientific Studies)

Faculty of Sciences Semlalia, Marrakesh.

ACADEMIC RESEARCH IN AI

5 publications · 168 citations

Deep Learning (RNN, CNN) and real-time vision for road safety.

Journal of Imaging · 2020

Real-Time System for Driver Fatigue Detection Based on a Recurrent Neural Network

Lead author · 136 citations

NISS · 2019

Driver Fatigue Detection Using Recurrent Neural Networks

Lead author · 28 citations

WorldS4 · 2021 · Springer

Detection System of Potholes on Roads Based on Recurrent Neural Network

Lead author

ICIAIR · 2020 · Springer

Real-Time Automatic Urban Traffic Management Framework Based on CNN Under Limited Resources Constraint

Co-author

ICDS · 2019

Learning Deep Features for Efficient Face Detection

Co-author