

# Syphax Bouazzouni

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https://github.com/syphax-bouazzouni

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## Software Engineer ( Ruby on Rails/Hotwire, React/NextJs, Java Spring)

Full-stack developer with 4+ years of experience in Ruby on Rails, Hotwire, Java Spring, and modern JavaScript frameworks (React, Next.js). Led Agile teams of 2–5 developers. Strong in DevOps, cloud (AWS, Kubernetes), and data technologies (PostgreSQL, Redis), Open-source contributor in OntoPortal project.

### WORK EXPERIENCE

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#### Lead Software Architect • Full-time

Institute for Applied Informatics (InfAI)

Berlin, Germany • 07/2024 - Present

- Led the architecture and development of the TS4NFDI API Gateway, successfully aggregating data from 6 services, improving data retrieval efficiency within 5 months.
- Migrated BiodivPortal to a new database in 5 weeks, achieving a 30% boost in performance for critical API calls.
- Transitioned to a Kubernetes-based architecture for API Gateway and BiodivPortal, enhancing system resilience and maintainability within 4 months.

#### Web developement & Research consultant • Contractor

Freelance

Freelance (Remote) • 01/2023 - Present

- Collaborated with Lifewatch ERIC Italy remotely to migrate to the latest version of OntoPortal, having a more modern UI, faster APIs, enhancing data accessibility and user experience over a 6-month period.
- Collaborated with Stanford's Musen Lab during a two-month in-person stint in San Francisco and continued remotely through 2023–2024; contributed to the modernization of nearly 1 million lines of legacy code, some over a decade old.

#### Software Engineer & Research Engineer in Web Semantics • Full-time

Laboratory of Computer Science, Robotics and Microelectronics  
(LIRMM)

Montpellier, France •  
10/2020 - 04/2025

- Led full-stack development of AgroPortal, delivering monthly production releases over the past two years through agile practices and effective team collaboration.
- Led the migration of all our user interfaces (100+ views) from jQuery and AngularJS to Hotwire and ViewComponents in under a year, using Figma designs and ensuring thorough testing, QA, and a successful release.
- Implemented monitoring for our API endpoints, leading to a performance boost of up to 300% by optimizing internal ORM queries within 3 months.

### EDUCATION

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#### Master's degree in Information Technology Engineering

National Higher School of Computer Science

Algeria

### SKILLS

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**Tech Stack:** Ruby on Rails, Java (Spring), TypeScript, React, Next.js, Hotwire

**DevOps & Infrastructure:** Docker, Kubernetes, AWS, CI/CD, Linux, Web Services Architecture

**Methodologies & Soft Skills:** Agile (Scrum, Kanban), Project Management, Team Collaboration, Communication, Documentation

**Languages:** English(C1), French(C2), German(A1), Arabic