

Joan Rieu

SOFTWARE R&D ENGINEER

Software engineer with a deep interest in software architecture, programming languages and algorithms.

Self-taught programmer since age 7, achieved a **Master's Degree**.

Passionate about sharing knowledge and learning about new technologies and practices.

PROFESSIONAL EXPERIENCE

2018 to Present → Tech Lead - Web & Cloud @ Lectra

2016 to 2018 → Software R&D Engineer @ Lectra

Development and deployment of **microservices**

(Node.js, Docker, Kubernetes, RabbitMQ)

Development of user interface components (React)

Refactoring of a legacy monolithic system into microservices

Creation of a technical **framework** for multiple teams (TypeScript)

2016 → Software Research Engineer (intern) @ Inria

Requirement analysis for a remote alert system

Creation of a **Domain-Specific Language** (Eclipse Xtext)

Creation of interactive **visualisations** (Sirius)

Design of a resilient network protocol (Java, RxJava, Cucumber)

Development of **server** components (Java, OSGi)

Development of **Android** apps (Java, RxAndroid)

2015 → Junior Developer (intern) @ Zaptic

Development of a offline-first **hybrid mobile app** (React, Cordova)

Refactoring of a legacy codebase (jQuery)

Development of an Android-to-JS bridge for specialized hardware

2013 to 2015 → Freelance Web Developer @ AEI

Development of various **websites** (Wordpress)

Integration of maps and graphs (Leaflet, Google Charts)

2014 → Software Engineer (intern) @ ANSSI

Development of an **offline-first** application for Android (Java)

2013 → Software Engineer (intern) @ IDSC Group

Port of a series of **games** from iOS to Android (Java)

See more projects on github.com/joanrieu

CONTACT

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🌐 Open to relocation
or remote work

SKILLS

Full-stack web development

Microservices deployment

Mobile application development

Desktop application development

Linux system administration

Compiler development and
domain-specific languages

Robotics and embedded systems
development

PRACTICES

Domain-Driven Design

Hexagonal Architecture

Clean Architecture

Behaviour-Driven Development

Test-Driven Development

Agile, Kanban, Scrum

Lean, continuous improvement

Getting Things Done

DevOps

Continuous deployment

EDUCATION

Master's Degree in Computer Science
and **Software Engineering**, specialized
in **Robotics**

Enseirb-Matmeca, Bordeaux, France

Fluent **French** and **English** speaker

Proficient in **German** and **Italian**

Beginner in **Russian** and **Portuguese**