

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

Software Research & Development Engineer

Lectra ∞ Bordeaux, France ∞ since 2016

JavaScript, TypeScript, React, Node.js, Docker, Kubernetes, RabbitMQ, Azure

- ✓ Reactive microservice development and deployment
- ✓ Domain-driven design of high added value components
- ✓ Unit tests, integration tests and end-to-end tests

Software Research Engineer (intern)

Inria ∞ Bordeaux, France ∞ 2016

Java, Xtext, Ecore, OSGi, Android, RxAndroid

- ✓ Redesign of a remote alert system
- ✓ Exploratory study and 6-month agile project planning
- ✓ Software architecture with behaviour-driven design

Software Engineer (intern)

Juliand Digital ∞ Manchester, United Kingdom ∞ 2015

JavaScript, React, RxJS, PouchDB, Phonegap, Android

- ✓ Redesign of an offline-first mobile app
- ✓ Refactoring of a legacy codebase
- ✓ Native-to-Js bridge for specialized hardware

Software Engineer (intern)

ANSSI (French NSA) ∞ Paris, France ∞ 2014

Java, Android, Couchbase Lite, ZXing, CouchDB

- ✓ Development of a mobile app prototype in 2 months
- ✓ Confidential work

Developer (intern)

IDSC Group ∞ Bordeaux, France ∞ 2013

Java, Android

- ✓ Port of a series of games from iOS to Android
- ✓ Reusable architecture for quick game development

See more projects on github.com/joanrieu

SKILLS

Full-stack web application development

JavaScript, Typescript, React, Node.js

Containerized scalable **micro-services** deployment

Docker, Kubernetes

Mobile application development

Android

Desktop application development

C++, Java

Linux system administration

Bash

Compiler development for domain-specific languages

ANTLR, Xtext, LLVM, x86 assembly

Robotics and embedded systems development

C++, C, assembly, electronics

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**