

Jocelyn Renault

Software Engineer Backend & Systems



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🌐 [Jocelyn Renault](#)

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★ TECHNICAL SKILLS

Languages

- Rust
- JavaScript/TypeScript
- Python
- C
- Solidity

Frameworks / Libraries

- Svelte / SvelteKit
- React
- Django
- Node.js / Express
- Web3.js/Web3.py
- PyTorch

Infrastructure

- Docker
- Kubernetes
- Nginx
- Linux / UNIX
- Git
- OVH
- SSH
- Bash

Databases

- SQLite
- PostgreSQL
- SurrealDB

🌐 LANGUAGES

French - Native

English - Professional

♥ INTERESTS

- Martial Arts
- Running
- History
- Content Creation

Software engineer: I build **APIs**, **services** and **automation tools**, from the first line of code to production.
Experience in **AI**, **Web3** and **systems programming**.

📁 EXPERIENCE

Machine Learning R&D Engineer

Sogeti, part of Capgemini

07/2025 - 01/2026

- Built an automated pipeline to train, evaluate and track results for a marine-animal detection model
- Developed a method that raised recall on aerial images from 5.4% to 58.3%, without retraining
- Co-authored a paper accepted at IEEE ICIP 2026
- Python - PyTorch - Faster R-CNN - Bash

Full Stack Developer

Y247 Group

10/2024 - 04/2025

- Designed and built a web application MVP from scratch.
- Designed the database, built the backend, API routes and authentication
- Built the frontend from a designer's mock-ups
- Svelte - SvelteKit - Node.js - Express - SurrealDB

Hackathons

- 🇫🇷 French Defense Digital Agency 2025
- 🇫🇷 Paris Blockchain Week 2025
- 🇫🇷 Paris H-W3B Super Finale 2024
- 🇫🇷 Paris Blockchain Week 2024
- 🇫🇷 Paris H-W3B 2024

🎓 EDUCATION

Expert in Computer Architecture

42 Lyon

2022 - 2026

- RNCP7 (Master's level): Information Systems & Networks
- RNCP6 (Bachelor's level): Web & Mobile Development

CS50's Introduction to Computer Science

Harvard

📁 PROJECTS

Cross-Emu: Game Boy/Game Boy Color emulator

Rust - Tokio - egui

A cycle-accurate Game Boy / Game Boy Color emulator that reproduces the original console's CPU, memory, graphics and peripherals, with a built-in debugger.

Self-hosted media server

Docker - Unix - Nginx - WireGuard - SSH

Deployed 16 services with Docker Compose.

Streaming, library automation, HTTPS through a reverse proxy. Downloads routed only through a WireGuard VPN (kill switch), and GPU video transcoding.

KAYP

React - TypeScript - Smartpy - Java - XRPL

Awarded at three hackathons. A SaaS that lets shipping companies digitize and authenticate their documents on the blockchain.

Microcode

Python, Ollama

An autonomous agent written from scratch on a local model: ReAct loop, tool schemas generated from docstrings, web search, scraping, file reading.

More projects and details on my portfolio
jocelynrenault.com