

# William JOLIVET

## Fullstack Software Engineer & DevOps

Vice President, Taker Junior Enterprise | Epitech Tek3 Student

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### Professional Summary

Fullstack software engineer & DevOps (Go/Gin, NestJS, gRPC). SaaS/AI deliveries (RAG, audio) on **AWS (Amazon Web Services)** + Docker; strong **CI/CD (Continuous Integration / Continuous Deployment)** culture. Tech lead, scoping, mentoring; remote/hybrid consulting missions.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer & DevOps (Part-time Internship) Hand-e (AI Consulting & Digital Transformation)

Lyon / Hybrid  
08/2025 – Present

- **Turnkey AI deployment platform:** App to launch AI software (chatbots, voice) in a few clicks, stack NestJS, PostgreSQL, Prisma, Python, Nuxt.
- **Packaging and orchestration:** App templates, database/service provisioning, Python scripts for AI workers.
- **CI/CD & DX:** GitHub Actions pipelines, lint/test, Docker images optimized for fast client deployments.

### DevOps Engineer (Internship)

Hand-e (AI Consulting & Digital Transformation)

Lyon / Hybrid  
07/2024 – 12/2024

- **"HostaspHERE" SaaS architecture:** Multi-tenant LLM observability platform (Go/Gin + MongoDB) with gRPC/Protobuf ingestion pipeline and non-blocking Python SDK.
- **Reliability & operations:** GitHub Actions CI/CD, multi-stage Docker images, Nginx reverse proxy, centralized logs.
- **Product AI:** Internal RAG chatbot via **Litellm** for the client knowledge base.

### Vice President

Taker Junior Enterprise (Epitech Junior Enterprise)

Vice President (since Jul. 2025) · Study Follow-up Lead (previous)

Le Kremlin-Bicêtre / Lyon  
03/2024 – Present

- **Strategic direction:** Led a ~240k€ revenue organization, CNJE "Best Hope 2024" laureate; optimized offers and margin.
- **Management:** Supervised technical teams with weekly rituals and skill-up plans.
- **Tech lead:** Rescue of high-risk studies (In Astra): architecture scoping, QA, and client deliverables.

### Occasional Lecturer / Instructor

EPITECH

Intensive mission (70h/2 weeks) on the Lyon campus

Lyon  
01/2026

- **ISEG Code Camp bootcamp:** Delivered an intro coding module for first-year students (algo basics + web).
- **Digital pedagogy:** Designed e-learning/video materials and assessment topics for the intranet.
- **Assessment & juries:** Grading, evaluations, participation in academic councils.

## SELECTED PROJECTS

### AI Callbot "In Astra" (CNE ALTEN 2025 Finalist) · Python, LiveKit, RAG, WebSockets

**Finalist for Best Engineering Study Award.** End-to-end architecture of a sovereign voice infrastructure to avoid costly SaaS solutions.

- **Latency <1s:** Real-time pipeline orchestration (STT Whisper → LLM RAG → TTS ElevenLabs) on **self-hosted LiveKit**.
- **Economic impact:** 3x infrastructure cost reduction ( $0.12\$/min \rightarrow 0.04\$/min$ ). Token optimization and removal of intermediaries.
- **Intelligence & sovereignty:** Dynamic RAG on vector DB, real-time action triggers (webhooks), and full data ownership.

### Gladios (TopineurInc) · Haskell, VM, Compiler

**Lisp engine → bytecode (94% Haskell).** Full pipeline: parsing, macros, desugaring, **closure conversion**, ANF, bytecode generation, and **TCO**.

- **Hindley–Milner type inference:** Unification + occurs check, principal typing ready for specialization.
- **High-performance VM:** Constant pool/labels, tail-call detection, hot-path optimization (GHC profiling, typed opcodes to reduce boxing, strict State).
- **Quality & automation:** Property-based tests (QuickCheck) covering the full pipeline, Python/Makefile CI/CD for reproducible builds.

### Survivor-Tek3 (Incubator Platform) · Nextjs 15, NestJS, PostgreSQL

Fullstack management platform for incubator: modular architecture, admin dashboard, and real-time messaging (WebSockets).

### OpenHosta (Open Source Library) · Python, OOP, Design Patterns

Major refactor of an LLM integration library: object-oriented architecture, decoupled pipelines, and improved extensibility.

## SKILLS

### Languages

Go (Golang) Haskell Python

C C++ TypeScript Java

SQL Bash

### Backend & Data

Gin NestJS

gRPC Protobuf

MongoDB PostgreSQL

### DevOps & Tools

Docker LiveKit

GitHub Actions CI/CD

AWS Nginx Linux

### Frontend

React Next.js 15

Tailwind CSS

### AI & Engineering

RAG STT/TTS

Real-time audio Compilers

Hindley-Milner

ANF/Closure

Bytecode VM

## EDUCATION

### Epitech Technology

Information Technology Expert

Class of 2028 (currently Tek3)

Project-based learning.

### Taker Academy

Fullstack Training

2024

### ECS Sallanches High School

General Baccalaureate

2023

Specialties: CS, Math.

## CERTIFICATIONS

### The Mantu Manager Program

Business Acquisition

Nov. 2025

### CNE25 Finalist (ALTEN)

Best Engineering Study

Apr. 2025

## PERFORMANCE

### Kattis (Algorithms)

Rank #8 in Auvergne-R.-Alpes.

### Languages

French: Native

English: B2+ (Technical)