

# JEAN-PAUL IRAGUHA

Software Engineer & Tech Lead

@jp@iraguha.dev [iraguha.dev](https://iraguha.dev) [Paris](#)



## SUMMARY

Software Engineer and Tech Lead with 10+ years of experience designing, building, and operating large-scale, high-availability distributed systems. Proven expertise in cloud-native platforms and critical infrastructure using Kotlin, TypeScript, Python, Kubernetes, and modern DevOps practices. Focused on building scalable, reliable systems and improving developer productivity through well-designed tooling, automation, and AI-augmented workflows that bridge the gap between business intent and production-ready systems.

## EXPERIENCE

01/2025 - Present

Paris, France

### Interim CTO & Software Engineer

#### Self-Employed

- Researching **AI safety**, with a focus on **epistemic integrity** and **system-level guarantees** beyond superficial correctness.
- Introducing **AI-assisted workflows** to accelerate delivery while reducing **cognitive load**.
- Exploring **AI ergonomics and developer experience** in AI-augmented engineering workflows.
- Delivered a fully automated deployment pipeline (AWS, Kubernetes, ArgoCD, Pulumi), increasing release frequency from less than 10 per month to more than 10 per day.
- Engineered the platform to onboard **40,000 users with zero downtime** during a large-scale event.
- Modernized a critical system (Python, TypeScript), improving build times by 2 times and backend **throughput by 4 times**.
- Led a **cross-functional team of 6 engineers**, aligning technical strategy with business goals.

02/2021 - 01/2025

Belgium

### Chief Technology Officer

#### Rise | The first neobank for teens Belgium

- Designed a scalable **SaaS banking platform** achieving **-99.99% availability** using a multi-AZ AWS and Kubernetes architecture
- Introduced Terraform and **GitOps** automation, enabling 5-10 safe production releases per day with near-zero rollback rates
- Maintained **50% hands-on** development in Java, Kotlin, while **leading a 15-engineer team**
- Consistently balanced rapid scope execution with a focus on long-term platform resilience and scalability

11/2019 - 02/2021

Belgium

### Technical Leader

#### Rise | The first neobank for teens Belgium

- Designed cloud-native infrastructure on AWS and Kubernetes, improving deployment reliability and **reducing manual operations to zero**
- Developed Java and Kotlin **microservices** with **gRPC**, enterprise-grade internal libraries, and high-performance Vue.js frontends and a Flutter mobile app using **TDD** and **clean code architecture** along the way
- Individually established a compliant IT department from the ground up, implementing all infrastructure, tooling, and processes to accelerate development and delivery by up to 3x
- Drove technical planning, long-term architecture decisions, and continuous improvement across the engineering organization

07/2017 - 11/2019

Paris Area, France

### Senior Software Engineer

#### Sopra Banking Software

- Implemented **Docker** and **Kubernetes** deployments for **large banking** clients
- **Built backend** services using Java, Spring, Reactive Streams, and Netflix OSS
- Maintained **~95% test coverage** across critical modules, significantly improving stability and reducing regressions
- Drove cross-functional collaboration to deliver the company's first secure microservices platform for complex financial systems
- Consistently ranked as a top performer among 2,500+ employees for productivity, impact, and code quality

11/2015 - 07/2017

Antwerp Area, Belgium

### Software Engineer & IT Consultant

#### Sopra Banking Software

- Collaborated with architects on security, performance benchmarking, and system hardening
- Led client-side implementation of the Sopra Banking API layer, enabling secure access to core banking systems and **supporting a €6M** annual-budget project
- Delivered **13 versions** of the bank's RESTful Web Service across 4 environments with seamless integration and uptime
- Fixed and triaged **500+ bug reports**, massively improving platform stability

## EDUCATION

2015

Location

### Master, Physics

#### Université libre de Bruxelles

## EDUCATION

2014

Location

- Master, Engineering Physics/Applied Physics  
Université libre de Bruxelles

## LANGUAGES

English  
Proficient



French  
Native



## SKILLS

Leadership & Processes

Team Leadership

Mentoring

Hiring

Performance Reviews

Cross-Functional Alignment

Technical Roadmaps

Agile/Scrum

Incident Management

Backend & Systems

Node.js

TypeScript

Bun.js

Java

Kotlin

REST APIs

Microservices

Event-Driven Systems

High Availability

Performance Optimization