

# Pierre FACQ

## Senior Full-Stack Engineer - PHP/Symfony & React/TypeScript

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Senior Full-Stack Engineer with 10+ years building production-grade SaaS applications. Specialized in PHP/Symfony and React/TypeScript, with deep expertise in multi-tenant architectures, performance optimization, and AI integration. Autonomous individual contributor - I take full ownership of a technical scope from architecture to deployment, shipping independently. Experienced in 100% remote async work from Mauritius (GMT+4), managing multiple clients in parallel.

### PROFESSIONAL EXPERIENCE

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#### Senior Full-Stack Engineer

[Edunao / Dixeo - E-learning - Freelance](#)

March 2021 - Present - Remote

##### Architecture & Performance

- Built a custom PHP extension in C++ for metrics computation on monthly views (multi-million user clients) delivering 100x performance gain vs native PHP
- Resolved critical performance issues: DB indexing, profiling, O(n<sup>2</sup>) to O(n) refactoring
- Designed multi-tenant SaaS API with PostgreSQL RLS isolation, Redis Streams async jobs, mills-based credit system, and Stripe billing
- Implemented FrankenPHP worker mode architecture for 5-10x throughput over traditional PHP-FPM

##### Moodle Development & AI Integration

- Built various Moodle plugins: AI tutor (OpenAI GPT), automated course generation, supervision, themes, blocks
- Developed a generic and configurable data import system (format, mapping, validation)
- Integrated LTI 1.3, OAuth2, SAML, Vector Store Sync for context-aware generation

##### Infrastructure & Observability

- Designed complete DigitalOcean infrastructure with Kubernetes and Terraform
- Deployed monitoring stack: Prometheus, Grafana, supervision dashboards, alerting
- Automated CI/CD via GitHub Actions, deployments and mass version upgrades on international fleet

**Stack: PHP 8.5, C++, Symfony 8.0, API Platform 4, PostgreSQL 16 (RLS), Redis 7, FrankenPHP, Docker, Kubernetes, Terraform, Traefik v3, Prometheus, Grafana, GitHub Actions, DigitalOcean, Moodle 4.5, OpenAI API**

#### Senior Full-Stack Engineer

[ShareAgent - AI Real Estate Platform - Freelance](#)

January 2024 - Present - Remote

- Designed and built solo an AI-powered real estate search platform analyzing user criteria in natural language to automatically match properties
- Implemented robust architecture with circuit breaker, exponential backoff retry, and rate limiting for external API integration
- Developed scoring system with 50+ weighted criteria and configurable matching strategies
- Deployed on DigitalOcean: App Platform, managed PostgreSQL, S3 storage, async workers via Symfony Messenger
- Optimized performance: GIN indexes on JSONB columns, 10x reduction in AI extraction time

**Stack: Symfony 7.3, PHP 8.4, PostgreSQL/JSONB, OpenAI API, Stimulus/Tailwind, DigitalOcean, PHPStan level 9**

#### Senior Full-Stack Engineer

[AE3 - SaaS Accounting Tool - Freelance](#)

January 2024 - Present - Remote

- Took over full autonomous ownership of a multi-tenant Next.js application managing social declarations for accounting firms, companies, and social institutions
- Architected multi-database solution: MySQL, PlanetScale, SQL Server, SIRENE registry via Prisma with 3 distinct schemas
- Integrated Azure cloud services (Blob Storage, Functions, App Service), Auth0, SendGrid, Sentry
- Implemented complex business logic: French social contribution calculations, DSN file parsing, automated regulatory PDF generation via Puppeteer

**Stack: Next.js 12, React 18, TypeScript, Prisma (multi-schema), MySQL, SQL Server, Azure, Auth0, Docker**

#### Software Engineer, Consultant

[GRDF - Gas Distribution Network - Freelance](#)

January 2019 - Present - Remote

- **Aquila** - Enterprise data consolidation platform: 45 Doctrine entities, 7-step async import pipeline, EasyAdmin interface (Symfony 7.2, PostgreSQL 17, Stimulus/Turbo)
- **BIPE** - Business workflow management system: 23,000+ line critical back-office, 6+ business modules, multi-format import (PHP 7.4+, MariaDB)
- **Capartage** - Dual-app field collection system: complete takeover and redesign, security hardening, Codelgniter 4 migration (PHP 8.3, MariaDB)
- **Dispoz** - On-call management: full development, Orange Business SMS API integration (Symfony 6.4, MariaDB)

**Stack: Symfony 6/7, Codelgniter 4, PHP 7.4-8.3, PostgreSQL, MariaDB, Stimulus, Turbo, TailwindCSS**

## Software Engineer

*GRDF - Full-time*

January 2015 - January 2018 - Metz, FR

- Developed internal applications: KPI dashboards, criticality index, business workflows

## SIDE PROJECTS

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**Konta - Multi-tenant payroll management SaaS for Mauritius**

Stack : **Symfony 8.0, API Platform 4, React 19, PostgreSQL 18, FrankenPHP, Valkey, JWT, Paddle, Document AI**

**Swivee - Multi-platform (web + mobile) vacation rental property management SaaS**

Stack : **Symfony 8.0, React 19, React Native / Expo, PostgreSQL 18, FrankenPHP, pnpm monorepo, Turbo, NativeWind**

## TECHNICAL SKILLS

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### Backend & Frameworks

PHP 8.x (expert) · Symfony 6/7/8 · API Platform 4 · Laravel · Doctrine ORM · PHPUnit · PHPStan (level 9) · Mago · FrankenPHP · Node.js · Next.js · REST APIs · GraphQL

### Frontend

TypeScript · React 19 · React Native / Expo · Next.js · Vue.js · Stimulus/Turbo · TailwindCSS 4 · DaisyUI · TanStack (Router, Query) · Vite

### Databases

PostgreSQL (RLS, JSONB) · MySQL/MariaDB · Redis/Valkey · SQL Server · Prisma · Query optimization · Advanced indexing

### DevOps & Cloud

Docker · Kubernetes · Terraform · Traefik · GitHub Actions · DigitalOcean · AWS (EC2, S3, Lambda) · Azure (Functions, Blob, App Service) · CI/CD · Linux

### Monitoring

Prometheus · Grafana · Sentry · Dashboards · Alerting · Log management

### AI & Integrations

OpenAI API · Gemini API · Moodle LMS · LTI 1.3 · OAuth2 · SSO/SAML · Auth0 · Stripe · Paddle

### Architecture

Multi-tenant SaaS · Clean Architecture · SOLID · DDD · Design Patterns · TDD · Performance optimization · Legacy modernization

### Additional Languages

C++ (PHP extensions) · Python · Bash

## EDUCATION

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**Master's Degree (M2), Statistical Expertise for Economics and Finance 2017 - 2018**

*University of Lorraine*

**Master's Degree (M2), Mathematics and Computer Science 2012 - 2017**

*University of Lorraine*

## LANGUAGES

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**French:** Native | **English:** Fluent (Bilingual)