

# Julien Jin

Software Engineer —  julienjin.dev

Backend-focused engineer at 42 Paris. I like knowing how things work underneath (memory, networking, concurrency) and building systems that hold up under pressure. Years of teaching and interpreting taught me to explain them as clearly as I build them.

## PROJECTS

01

### ft\_transcendence – Virtual 3D Coworking Space

✎ Go, PostgreSQL, WebSockets

- › Wrote the whole Go backend of a 3D coworking space (team of 4): a REST API of about 35 routes whose actions reach users live through a WebSocket hub.
- › Auth with email-verified JWT sessions, 2FA (TOTP) and OAuth (Google, GitHub, 42); atomic PostgreSQL CTEs against race conditions.
- › Personal data export and account deletion (GDPR); backend tested with go test.

### webserv – Custom HTTP/1.1 Server

✎ C++98, Sockets, Epoll

- › Non-blocking HTTP/1.1 server (epoll) in C++98, rebuilt solo from scratch: virtual hosts, Nginx-style config, CGI, uploads; 100% availability under siege.

### Inception – Dockerized System Infrastructure

✎ Docker Compose, Nginx, MariaDB

- › Docker Compose infrastructure built from scratch: WordPress served by Nginx over TLS, MariaDB, Redis cache, cAdvisor monitoring, each service on an internal network.

## EDUCATION

02

### IT Architecture Expert (RNCP Level 7, Master's level)

42 Paris – Paris, France

2025 – Present

### Undergraduate Studies in Physics & Medical Pathway

Paris-Cité University – Paris, France

2021 – 2024

## EXPERIENCE

03

### English Instructor

AVES English (Japanese Online School) – Remote

2024 – Present

- › Taught personalized English lessons focused on grammar, vocabulary, and practical communication.
- › Developed personalized long-term learning strategies to improve students' independent learning and information retention.

### Guest Relations Volunteer

Cloud Native Days France – Paris, France

Feb 2026

- › Linked attendees and event operations at a DevOps and cloud conference, solving on-site issues.

### Multilingual Interpreter (FR, EN, JP)

Paris Fashion Week – Paris, France

Oct 2024 & Mar 2025

- › Performed real-time interpretation on-site, facilitating smooth communication between international stakeholders under strict time constraints.

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- Paris, France

## SKILLS

04

### Backend & Architecture

- › **Languages:** C, C++, Go
- › **Networking:** HTTP, Sockets, WebSockets, REST, OAuth, JWT
- › **Core Concepts:** Concurrency, Memory Management, Database Architecture
- › **Data:** PostgreSQL, MariaDB

### DevOps & Infrastructure

- › **Containers:** Docker, Compose
- › **OS & Servers:** Linux, Nginx, Bash
- › **Workflow:** Git, Make, LaTeX

### Frontend & Design

- › **Core:** HTML, CSS, Vanilla JS
- › **Design:** Figma, Photoshop

## LANGUAGES

05

### Native & Bilingual

- › French, English

### Professional Working

- › Chinese, Japanese

### Basic Working

- › Spanish, Korean