

Jerome Portier

Software Engineering Student

– Web, QA, DevOps, Systems –

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Profile

Final-year Software Engineering student at École 42, transitioning from a professional background in audio engineering, with a strong systems mindset and a focus on building reliable, secure and production-ready software.

I design and implement backend and full-stack applications using TypeScript and Node.js, with particular attention to clean API design, authentication flows, observability, containerized deployments and CI/CD automation. I value automation-first development practices and aim to build systems that are testable, reproducible and scalable.

Beyond web development, I have a strong interest in QA automation, DevOps workflows, cloud-native architectures, embedded systems and data-driven applications. I am motivated by environments where reliability, security and performance are critical, and where engineering rigor directly impacts product quality.

Currently seeking an internship in Web Engineering, QA Automation, DevOps/Cloud, Embedded Systems or Data Engineering.

Technical Skills

Programming Languages: TypeScript, JavaScript, Python, C, C++, Bash

Frontend: React, React Router, TanStack Query, TailwindCSS, Vite

Backend & APIs: Node.js, Fastify, REST APIs, OpenAPI, SQL, Prisma

Software Testing: Vitest, Google Test (C++), Test-Driven Development (TDD), unit and integration testing

DevOps & Cloud: Docker, Docker Compose, GitHub Actions, CI/CD pipelines, semantic-release, Linux environments

Observability & Monitoring: Prometheus, Grafana, metrics exposure, logging fundamentals

Systems Knowledge: HTTP protocol, event-driven architectures, basic concurrency, Linux system usage

Selected Projects

Via — Typed API Client Generator

github.com/jeportie/Via

- Designed and developed a type-safe API client SDK generated from OpenAPI specifications.
- Leveraged advanced TypeScript features (conditional types, mapped types, inference) to enforce compile-time safety.
- Built CI pipelines with GitHub Actions enforcing linting, testing and semantic versioning.
- Developed CLI tooling to automate schema fetching, client generation and configuration.
- Focused on developer experience, automation and maintainability.

ft_transcendence — Full-Stack Web Application

github.com/jeportie/ft_transcendence

- Built a production-style full-stack application using TypeScript, Fastify, SQL and Docker.
- Implemented secure authentication flows (JWT, OAuth2, two-factor authentication).
- Designed role-based access control mechanisms.
- Integrated monitoring stack using Prometheus and Grafana for observability.
- Structured modular backend services focused on scalability and security.

webserv — HTTP Server in C++

github.com/jeportie/webserv

- Contributed to the development of an HTTP/1.1 server in C++ with event-driven architecture.
- Applied Test-Driven Development using Google Test.
- Gained strong understanding of HTTP internals, request parsing and server-side security considerations.

Work Experience

Studio Sound Engineer

2019–2022

- Delivered high-quality technical production in professional studio environments.
- Developed precision, iterative quality control mindset and technical rigor.

Live Sound Engineer / FOH (Audio & Lighting)

2019–2024

- Technical lead for live events and festivals under real-time constraints.
- Managed complex technical systems requiring reliability and rapid troubleshooting.
- Coordinated multidisciplinary teams to ensure consistent delivery.

Education

École 42 — Software Engineering Program

Paris, 2023–Present

Level 11 — Project-based, peer-learning curriculum. Focus on C programming, algorithms, system programming and full-stack engineering.

Abbey Road Institute — Diploma in Sound Engineering

London, 2017–2019

GPA: 4.0/4.0 — Studio engineering, acoustics, signal processing.

EICAR Paris — Audiovisual Diploma

Paris, 2014–2017

Film production, audio and post-production.