

Robin Vidal

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Education

EPITA Sep 2024 — Aug 2027
Master of Engineering (M.Eng.) in Computer Science Paris, FR

- **Key Academic Projects:** POSIX-compliant Shell (Lexer/Parser, AST, Expansion engine, Process execution & redirections), Custom C Memory Allocator, Kernel Rootkit, GDB-based Debugger, Full-Stack app deployed on **GKE** via **Terraform**, **Ansible** & **CI/CD**.

Work Experience

Software Engineer (Apprentice) Oct 2024 — Present
Enedis Paris, FR

- **Infrastructure as Code (IaC):** Minimized operational toil and environment drift by engineering automated **Ansible** playbooks and **GitLab CI** pipelines across **Docker** and **AWS** infrastructure.
- **Security & Reliability:** Secured a fleet of 14 applications by implementing **SAST/DAST** auditing workflows, reducing critical vulnerabilities from +4,000 to 20 while increasing service reliability.
- Modernized legacy codebase by leading architectural refactors toward **Next.js**, **Laravel**, and **Go** to enhance scalability and maintainability.

Full-Stack Developer (Intern) Jan 2024 — Mar 2024
6Xpos Gap, FR

- Migrated a stats platform from Xamarin to **Avalonia UI** and built a **real-time** IoT data consolidation engine for distributed devices.

Backend Developer (Intern) May 2023 — Jul 2023
InStore Solution Gap, FR

- Architected a high-concurrency **SignalR/ASP.NET Core** backend to synchronize game states for FDJ kiosks.

Projects

Author, kvgo (github.com/robin-vidal/kvgo) Feb 2026 — Present

- Built a sharded in-memory Key-Value store in **Go** with **FNV-based key hashing** across per-CPU shards, fine-grained **RWMutex** locking, and a custom TCP server, achieving sub-millisecond **p99** latency under concurrent load.
- Instrumented with **OpenTelemetry** and a **Prometheus/Grafana** stack tracking request latency, hit rate and throughput; **GitHub Actions CI** with race condition detection.

Author, tinydocker (github.com/robin-vidal/tinydocker) Jun 2025 — Present

- Implemented Docker's core isolation primitives from scratch in **C** with **Linux namespaces** (UTS, PID, Mount), **chroot** and **cgroups v2** to build a working container runtime without any external library.

Author, inference-stub (github.com/robin-vidal/inference-stub) Mar 2026 — Present

- Engineered a **Go** LLM inference stream simulator for **kgateway (CNCF)**, enabling reproducible performance testing on **Kubernetes** without GPU infrastructure.

Extracurricular Activities

President of Ephemere (EPITA Photography Association) Mar 2025 — Present

- Built and deployed an in-house automated photo workflow system (real-time capture/batch printing) used at large-scale events (+10k visitors), maintaining 97% service uptime across all events.

Skills

- **Languages:** Go, C, Python, Bash, Java, C++
- **Infrastructure & Cloud:** Kubernetes, Docker, Terraform, Ansible, ArgoCD, AWS, GKE, GitLab CI, GitHub Actions
- **Observability & Security:** Prometheus, OpenTelemetry, SAST/DAST, Linux namespaces, cgroups, TCP/IP, WebSockets, SQL, REST APIs