

Robin Vidal

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Education

EPITA <i>Master of Engineering (M.Eng.) in Computer Science</i>	Sep 2024 — Aug 2027 <i>Paris, FR</i>
• Key Academic Projects: • POSIX-compliant Shell (Lexer/Parser, AST, expansion, process execution in C). • Custom C Memory Allocator. • Multiplayer GeoGuessr-like game (7 microservices, Kafka, real-time sync) deployed on GKE via Terraform & CI/CD.	

Work Experience

Software Engineer (Apprentice) Enedis	Oct 2024 — Present <i>Paris, FR</i>
• Built a developer assessment platform in Go with an in-browser PHP editor and automated code evaluation engine running submissions in isolated Docker containers. • Developed two production applications from scratch (Next.js/Node.js) while maintaining a fleet of 14 legacy PHP applications. • Reduced critical vulnerabilities from 4,000+ to 20 by implementing SAST/DAST workflows in CI and collaborating with teammates to remediate findings.	
Full-Stack Developer (Intern) 6Xpos	Jan 2024 — Mar 2024 <i>Gap, FR</i>
• Migrated a stats platform from Xamarin to Avalonia UI and built a real-time IoT data consolidation engine for distributed devices.	
Backend Developer (Intern) InStore Solution	May 2023 — Jul 2023 <i>Gap, FR</i>
• 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. • 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++ • Technologies: Kubernetes, Docker, AWS, GKE, GitLab CI, GitHub Actions • Systems & Observability: Linux namespaces, cgroups, TCP/IP, OpenTelemetry, Prometheus, SQL, REST APIs	
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