# NIKOS LAZARIDIS

## SOFTWARE DEVELOPER | BACKEND & FULL-STACK · APPLIED AI

Greece | EU citizen | Remote across Europe | Open to relocation

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## PROFILE

Backend and full-stack software developer. Since Jul 2025: PostgreSQL-backed event delivery and booking systems, tested under failure and contention; local-first AI tools for retrieval, agent workflows and local inference. Proficient in agentic coding harnesses. Previously: Level 2 technical escalation for connected-car services.

## SELECTED ENGINEERING PROJECTS

**RELAYFORGE** | PostgreSQL · Fastify · TypeScript · SSE · Playwright

- Built a self-hostable PostgreSQL event delivery platform: transactional ingest, lease-fenced workers, signed retries, dead letters and audited replay.
- Verified it with 56 non-browser tests, including 28 PostgreSQL integration tests, plus 6 Playwright end-to-end flows.

**SLOTLINE** | PostgreSQL · Fastify · React · TypeScript · Payments sandbox

- Built a customer booking flow and merchant console where holds, expiry, waitlist promotion and checkout share one inventory transaction.
- Serialised capacity on one inventory row; 100 concurrent holds against three seats gave three accepted holds, 97 rejections and no oversold inventory.
- Added a sandbox payment boundary with signature verification and event-id dedupe; not a Stripe integration.

**VOICE-ENABLED PI CODING AGENT** | TypeScript · Electron · WebSockets · faster-whisper · GGUF TTS

- Built a push-to-talk voice layer for a coding agent: local faster-whisper transcription, streamed GGUF speech, an Electron Live2D avatar and interruptible playback.

**PRIVATE AI WRITER** | TypeScript · React · Capacitor/Android · Express · llama.cpp · Vitest

- Built a local-first Android writing app with an authenticated Express API, llama.cpp inference, guided edits, diffs, undo and tests for stale revisions and cancellation.

**ANIMAHUB** | Python · PWA · HTTP APIs · stable-diffusion.cpp · Vulkan

- Built a mobile PWA and Python service for local image generation, with reusable prompt presets, gallery output and model configuration.
- Orchestrated model-server health checks, generation locking and cancellation; tuned execution for constrained AMD GPU memory.

**CONTEXT NEXUS** | Unreal Engine 5 · C++ · Clang 18 · LLM APIs

- Built an Unreal Editor prototype with Blueprint DSL translation, Clang AST analysis and focused in-editor LLM context. Archived R&D, not an active product.

## PROFESSIONAL EXPERIENCE

**Independent Software Development** | Jul 2025 – Present

Self-directed projects

- Built RelayForge: a self-hostable PostgreSQL event delivery platform with transactional ingest, lease-fenced workers, signed retries, dead letters and audited replay. 56 non-browser tests, including 28 against real PostgreSQL.
- Built Slotline: a booking product and merchant console where holds, expiry, waitlist promotion and checkout share one inventory transaction; in the measured contention run, 100 concurrent holds against three seats produced three accepted holds and no oversold inventory.
- Private AI Writer, AnimaHub and a voice coding agent: Android and web clients, HTTP APIs and local model integration.
- Agentic coding harnesses: daily use since 2024 — Aider, then the Pi coding agent, plus OpenCode, Claude Code and Codex CLI; built my own harness for fun.
- Retrieval and agent systems: chunking, local embeddings, hybrid search, reranking, validated tool calls, retrieval evaluation. Local inference on llama.cpp / GGUF: quantization, GPU/CPU offload, KV cache, activation steering.

**Teleperformance — Automotive Programs | Expert Team Specialist** | Jan 2023 – Jul 2025

Audi digital services & Mercedes-Benz roadside assistance

- Promoted to Level 2 Expert Team; typically handled ~30 escalations per shift across connected-car and EV services.
- Used Salesforce and internal diagnostic tools to analyse backend logs, reset service state and guide technical troubleshooting.
- Updated infotainment and remote-control service packages; improved dialogue trees, procedures and technical documentation.

## TECHNICAL SKILLS

**Languages** TypeScript / JavaScript, Python, C++, SQL

**Backend** PostgreSQL, Fastify, row-level locking, idempotency, lease fencing, transactional inventory, SSE, Node.js, HTTP APIs

**Applied AI** llama.cpp, GGUF, faster-whisper, LLM tool calling, hybrid search, reranking, evaluation, OpenAI-compatible APIs

**Agentic coding** Aider (since 2024), Pi coding agent, OpenCode, Claude Code, Codex CLI, own harness built for fun

**IDEs & tooling** VS Code, Visual Studio Community, JetBrains Rider, Git, Playwright, Vitest

**Interfaces / platforms** React, Capacitor/Android, progressive web apps, WebSockets, Cloudflare Workers / Durable Objects

## EDUCATION & LANGUAGES

**Education** University of Western Macedonia — Environmental Engineering studies (coursework)

**Certification** CS50x, Harvard University via edX: Introduction to Computer Science, completed November 2026 certificate

**Languages** Greek (native) · English (C2) · German (B1)