Spyros Bourtzalas

Full-stack Product Engineer | TypeScript, React/Next.js, Node, SaaS & Automation

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Profile

Full-stack product engineer building SaaS products, automation tooling, and applied-AI workflows across React/Next.js, Node/Fastify, PostgreSQL, mobile apps, and operational infrastructure. Turns ambiguous product requirements into domain models, interfaces, APIs, background jobs, payments, observability, and deployment workflows. Currently operating CoachHaven, a public-beta coaching platform for client management, solver-backed meal planning, training delivery, adherence tracking, messaging, and billing.

Selected Experience & Projects

CoachHaven | Founder / Full-stack Product Engineer | 2025-present | coachhaven.app | Public beta

Production-grade coaching platform spanning web, mobile, backend services, background jobs, payments, auth, contracts, and observability.

Tech: Next.js, React, Expo, TypeScript, Fastify, Prisma, PostgreSQL, Redis, BullMQ, Auth0, Stripe Connect, OR-Tools CP-SAT, OpenTelemetry, Grafana

- Built solver-backed meal-plan generation around macro targets, meal slots, recipe availability, allergens, diet rules, preferences, batch cooking, regeneration scope, feasibility checks, queue-backed jobs, and immutable plan versions.
- Modelled the coaching domain across coaches, clients, recipes, ingredients, portions, collections, plan versions, adherence, training, payments, multi-tenancy, and admin workflows.
- Added AI-assisted workflows using internal tool packs and constrained inference that returns structured, validated outputs before product logic acts on them.
- Added internal observability and debugging with health checks, telemetry, dashboards, traces/logs/metrics, admin tooling, Tailscale access, and read-only MCP surfaces for API, queue, solver, and frontend issues.

Atelier Studios | Web Developer | Sep 2024 - Oct 2025 | 1 year

Client-facing website delivery, maintenance, debugging, WordPress implementation, and practical full-stack development in an agency environment.

Tech: WordPress, PHP, JavaScript, HTML, CSS/SCSS, MySQL/MariaDB, Git/GitHub, Docker/DDEV, GitHub Actions, Bash, cPanel/Krystal/Cloudflare

- Delivered and maintained client websites across implementation, production debugging, content changes, cross-browser fixes, plugin/theme issues, and client-driven constraints.
- Set up GitHub Actions-based CI/CD across 20+ client sites, replacing manual FTP releases with repeatable SSH/rsync deployments and reducing release friction.
- Rebuilt Axis CLC's above-the-fold hero video delivery, replacing an embedded Vimeo player with a custom HLS/CMAF + fallback MP4 pipeline; improved DebugBear score from ~70 to ~89, reduced LCP from ~1.8s to ~1.2s, and cut TBT from 600ms+ to ~130ms.
- Hardened WordPress/PHP sites against automated traffic and contact-form abuse using honeypots, per-IP rate limiting, firewall tuning, .htaccess rules, Cloudflare, and security-plugin configuration while reducing false positives.

Scry | Playwright QA/audit platform | 2026

Manifest-driven audit runner and reporting platform for standardising WordPress QA across accessibility, responsive behaviour, interactions, and visual regression.

Tech: Node.js, Playwright, axe-core, SvelteKit, TypeScript, schema-first reports

- Built a Node/Playwright audit runner that executes explicit run manifests for repeatable QA checks across client sites.
- Added sitemap discovery, page caps, browser-project selection, axe-core WCAG checks, visual baselines, screenshots, artifacts, and schema-first HTML reports.
- Developing the SvelteKit product layer for projects, sites, runs, suites, findings, artifacts, and hosted audit workflows.

rootOn Construction | Live bilingual client site | 2025 | rootonconstruction.com

Image-led bilingual website for a Greek construction and renovation workshop.

Tech: Svelte 5, Vite, Tailwind, PHP, PHPMailer, AVIF, accessibility-focused UI

- Designed, built, and deployed a Greek/English website for a construction and renovation business, with six project case studies, responsive AVIF imagery, carousel/fullscreen modal presentation, accessible navigation, and WCAG-AA focus states.

- Implemented a PHP/PHPMailer contact endpoint with honeypot filtering, per-IP rate limiting, SMTP delivery, and auto-replies.

dotenvx-tui | Encrypted environment tooling | 2026

Developer tool for working with encrypted dotenvx variables from a full-screen terminal UI.

Tech: Go, Bubble Tea, Lipgloss, dotenvx, npm binary distribution

- Built a full-screen Go TUI for browsing, editing, diffing, importing, exporting, and deleting encrypted dotenvx variables across repository scopes.
- Reworked a Bash prototype into modular packages for UI state, dotenvx subprocess execution, validation, secret handling, file watching, clipboard behaviour, and npm binary distribution.
- Added guarded plaintext handling with minimal subprocess environments, target-path validation, clearable decrypted previews, private staged writes, and atomic replacement.

Company Directory and Gazetteer | PHP case studies | 2024

Earlier full-stack PHP/MariaDB and API-integration case studies.

Tech: PHP, MariaDB, SQL, JavaScript, jQuery, Bootstrap, Leaflet, GeoJSON

- Built a PHP/MariaDB personnel directory with normalised staff, department, and location data, relationship-aware reads, CRUD flows, prepared statements, server-side writes, and dependent-record safeguards.
- Built a Leaflet country explorer with PHP proxy endpoints, GeoJSON borders, geolocation, asynchronous rendering, third-party country/weather/news data, and Bootstrap modal views.

Skills

Frontend & product UI: Next.js, React, React Native, Expo, Svelte/SvelteKit, TanStack, TypeScript, JavaScript, HTML5, CSS, Tailwind, SCSS, Bootstrap, jQuery, Leaf**let**

Backend, data & payments: Node.js, Fastify, PHP, Python, FastAPI, Prisma, PostgreSQL, MySQL, MariaDB, Redis, BullMQ, SQL, OR-Tools CP-SAT, Auth0, Stripe Connect

AI, automation & developer tooling: Claude Code, Codex CLI, Gemini CLI, LLM APIs, MCP, internal tool packs, scoped execution, structured inference, wo**rkflow automation**

Quality, DevOps & observability: Playwright, axe-core, Vitest, Detox, Docker, GitHub Actions, OpenTelemetry, Prometheus, Loki, Tempo, Grafana, Tailscale, Railway**,** Bash**,** npm, pnpm, Turborepo

Education

- IT Career Switch - Full-stack Developer Programme
- University of West Attica, Athens - Computer Science study