# Alexandros Paliampelos

SOFTWARE ENGINEER

alexandrospaliampelos@gmail.com | Athens, Greece | linkedin.com/in/apaliampelos
github.com/sonole | apaliampelos.me

## OBJECTIVE

Driven by the principle of "less is more", I focus on building clean, maintainable, and scalable software solutions. I thrive in dynamic environments where adaptability and accountability are key, and I seek opportunities that challenge me to grow technically while delivering high-quality results through practical, purpose-driven development.

## EXPERIENCE

**Full Stack Developer | InDigital** Oct 2025 – Present

- Contributed to a national healthcare platform (Laravel/Vue) featuring a ClickHouse analytics layer powering AI-driven fraud and misconduct detection (e.g., polypharmacy, prescription abuse) across various services.
- Implemented an async AI dispatch pipeline routing health records to external microservices with environment-aware faking, retry logic, and HTTP 202 polling callbacks.
- Designed a PHP-to-Vue DTO contract pipeline using Inertia.js on the healthcare platform to centralize sort configs, field visibility, and UI state at the backend schema level.
- Built a composable Livewire trait system for a national sports management platform (Laravel/Livewire), orchestrating recursive nesting and lifecycle callbacks to reduce complex multi-entity forms to declarative traits.
- Integrated Greek government APIs (REST, SOAP, OAuth2) across both platforms with idempotency keys, multi-scheme callback authentication, and resilient queue/retry handling.

**Mobile/Web App Developer | AVS Automotive** Mar 2024 – Oct 2025

- Built a cross-platform fleet management ecosystem (iOS, Android, Web) using Flutter and a dual-database Laravel REST API for real-time telematics and route tracking.
- Designed a fine-grained security and multi-tenant architecture, mapping Sanctum token-abilities to subscription tiers alongside admin impersonation features; engineered real-time tracking features, combining Firebase Cloud Messaging, interactive maps, and live sensor data dashboards.
- Developed a smart-locker delivery platform built on Bagisto, featuring external hardware API integrations, a custom payment gateway, and a companion Flutter app.

**Back End Developer | codica** Oct 2022 – Oct 2025

- Modularized a monolithic CMS into 5 core packages and built over 25 independent Laravel packages featuring a custom, artisan-powered package manager UI.
- Decoupled package communications using Laravel’s event/subscriber system and a facade-based public API to trigger asynchronous workflows (e.g., automated stock and order updates).
- Built secure third-party integrations including payment gateways (PayPal, Nexi, Modirum), marketing tools (Moosend, Mailchimp), product feed pipelines (Google Shopping, Facebook Catalog), and ReCAPTCHA.
- Created a custom analytics app retrieving daily performance metrics from Facebook Ads and Google Ads accounts, feeding Taboola for optimized campaign targeting and budget allocation.

**USV Development Lead | Hellenic Research Technological Development and Innovation Center (KETAK)** Jan 2024 – Jan 2025

- Led end-to-end development of Greece's first Unmanned Surface Vessel (USV) as part of national military service, managing both hardware and software architecture.
- Built embedded telemetry assemblies using Arduino and Raspberry Pi, writing custom scripts for sensor data-fetching across radar, steering, and throttle subsystems.
- Deployed custom autopilot firmware (ArduPilot), managing endpoint calibration and implementing critical autonomous navigation failsafe protocols.
- Integrated CAN-BUS and NMEA 2000 protocols for hardware communication; deployed real-time telemetry enabling remote vessel control via mobile networks with directional antennas, with Starlink compatibility.

**Web Systems Administrator | AVS Automotive** Sep 2020 – Sep 2022

- Managed VPS-based infrastructure hosting mission-critical web applications.
- Administered IIS servers, managed server logs, scripts, and NAS systems to ensure uptime and performance.
- Deployed and monitored web apps and internal tools for operational efficiency and scalability.

**Junior Web Developer | AVS Automotive** Sep 2018 – Sep 2020

- Maintained and updated multiple WordPress and Joomla installations, ensuring security, performance, and compatibility with plugins and themes.
- Developed custom PHP scripts, plugins, and components to extend CMS functionality based on specific business requirements.

**Junior Information Technology Specialist | AVS Automotive** Feb 2016 – Sep 2018

- Programmed and tested telematics and automotive diagnostic devices.
- Delivered training and support to partners for software and hardware deployment.
- Conducted QA processes and managed installation of technical systems across partner networks.

## EDUCATION

**Bachelor's Degree: Computer Science | University of Piraeus** Sep 2016 – Sep 2022

Department of Digital Systems. Major in Software & Data Systems. Secondary Major in Information Systems.

**Fundamentals Of Digital Marketing | Google** Issued on Apr 2022

**Applied Data Science with Python | Simplilearn** Issued on Jun 2022

**Flutter & Dart | Udemy** Issued on Apr 2024

**Backend Master Class [Golang + Postgres + Kubernetes + gRPC] | Udemy** Issued on Jul 2026

## SKILLS

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|---|---|
| **Frontend** | HTML, CSS, JavaScript, Alpine.js, Vue, Livewire, WordPress, Joomla |
| **Backend** | PHP, Python, Java, C, Flask, SQL, MongoDB, Redis |
| **Frameworks** | Laravel, Flutter |
| **Other** | REST APIs, Docker, Firebase, ClickHouse, JSP |
| **Embedded** | Arduino, Raspberry Pi, ArduPilot, CAN-BUS, NMEA 2000 |
| **Tools** | Git, IIS, VPS, NAS, Lua, Bash, PowerShell |
| **Soft Skills** | Adaptability, Problem-solving, Creative thinking, Time management, Negotiation, Positivity |
| **Languages** | English (Professional), Greek (Native), Italian (Limited) |

## PROJECTS

### Unmanned Surface Vessel (USV)

Arduino, Raspberry Pi, ArduPilot, CAN-BUS, NMEA 2000, Python, Bash, Starlink

Greece's first autonomous surface vessel - national R&D

- Greece's first autonomous surface vessel, built around a modular self-contained control unit - a single enclosure housing relay boards, Arduino, ArduPilot, Raspberry Pi, and a router - that converts any compatible vessel into a USV with minimal onboard modifications.
- The control unit interfaces CAN-BUS and NMEA 2000 sensors (radar, GPS, throttle, steering) with ArduPilot firmware for autonomous navigation and hardware failsafe protocols.
- Real-time remote control deployed over mobile networks with directional antennas and Starlink compatibility, enabling beyond-line-of-sight vessel operation.

### AVS Telematics

Flutter, Laravel, Firebase, OBD-II, REST API, Sanctum

Live fleet management platform - iOS, Android & Web

App Store | Google Play | Website

- A live, published fleet management platform (iOS / Android) providing real-time vehicle tracking, OBD telemetry charts, trip history replay, geofencing, and CO2 emission reports for authorized fleet operators.
- A multi-tenant platform with subscription-tier access control and admin impersonation, backed by a dual-database Laravel REST API serving Flutter clients across iOS, Android, and Web.
- Features crash detection alerts via Firebase push notifications, a Driver Hub for GPS-tagged field reports, live map clustering, and OBD data visualized as real-time telemetry charts.

### VVV Green City

Bagisto, Laravel, Flutter, Cardlink, REST API

Smart-locker delivery platform - iOS, Android & Web

App Store | Google Play | Website

- A live, published e-commerce platform built on Bagisto, enabling smart-locker delivery - customers browse, pay, and collect orders from municipal locker units at any time using a secure PIN code.
- Powered by custom packages, a Cardlink payment gateway and a smart-locker shipping carrier with real-time locker discovery, box-size selection (S/M/L), drop-off, pickup confirmation, and box clearing via MD5-signed hardware API.
- A companion Flutter app with dual customer/admin modes lets admins open locker doors remotely and manage orders, while customers track shipments and retrieve pickup codes in-app.

### laratermio

Laravel, Livewire, Filament, Tailwind

Terminal-style developer portfolio framework

GitHub | Docs

- A terminal-style developer portfolio - visitors type commands (experience, projects, skills, search) to explore content through a browser-based shell instead of a traditional webpage layout.
- Fully content-managed via a Filament 5 admin panel with no code changes required; includes a PDF CV generator that renders the entire portfolio to A4 on demand.
- Built on Laravel 13, Livewire 4, and jQuery Terminal - with Docker/Sail setup, and a seeder system that separates demo from personal content for easy reuse.

### Remote Diagnosis & Telematics

Arduino, CAN-BUS, GPS, GSM, Docker, TCP/IP

BSc Thesis - Full client-server telematics solution

GitHub

- Designed and built an Arduino Nano-based telematics unit integrating MCP2515 CAN-Bus, Ublox NEO-7M GPS, and SIM900 GSM modules to capture vehicle diagnostic data and GPS location.
- Developed a TCP/IP stack to format data streams into packets and transmit via GSM to a containerized Laravel/JavaScript web application - enabling real-time remote vehicle monitoring.
- Packaged the server backend using Docker, and documented step-by-step wiring diagrams, OBD-II PID parsing, and deployment processes.
- Achieved 10? on GitHub, demonstrating practical design and open-source collaboration.