Alexandros Paliampelos

SOFTWARE ENGINEER

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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

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.