



Sergiu-Lucian Petrică

Lead / Senior Full-Stack Engineer

Contact

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Competencies

PHP / Laravel

Javascript / Typescript / VueJS

Mysql / MariaDB / Postgres

HTML / CSS / SASS

AWS / CDK

Docker

Languages

English (advanced)

Romanian (native)

Education

Babes-Bolyai University

Computer Science

2011 - 2014

International Computer High
School of Constanța

Mathematics - Computer Science

2007 - 2011

Professional Experience

Lead Full-Stack Engineer (Contract)

Streamec

November 2024 - Present

A Swedish music-tech company delivering licensed, gym-optimized audio streaming solutions to fitness facilities across Europe. Their core product is a subscription-based platform combining Raspberry Pi hardware with a web dashboard, which enables gym owners to manage and schedule their in-venue music experience seamlessly.

Key Contributions

- Led a team of 3 people focusing on end-to-end development of the customer-facing dashboard and backend services, enabling gym owners to manage their in-venue audio experience in real time
- Architected and maintained the audio processing pipeline running on embedded Raspberry Pi hardware, ensuring reliable, low-latency music delivery at scale
- Owned engineering processes across the team, from architecture decisions to cross-functional collaboration with the music rights and operations teams

Technical Skills

- PHP
- Javascript
- VueJS
- MySQL
- HTML
- CSS / SASS
- Docker

Senior Full-Stack Engineer (Contract)

Nordhealth

May 2024 - November 2024 (7 months)

A Nordic healthcare company delivering a large-scale patient management platform which serves a high volume of users across sensitive clinical workflows. The project demanded rigorous engineering standards across a complex, feature-rich application with extensive third-party integrations and strict data privacy requirements.

Key Contributions

- Integrated governmental and healthcare third-party services, including national patient apps and clinical communication systems, ensuring compliance and reliability across external dependencies
- Drove the desktop-to-web migration, delivering core features that unlocked the transition of the existing user base from the legacy desktop application to the modern web platform
- Improved platform scalability and stability through targeted refactoring, performance optimizations, and high-level technical support - maintaining quality under the demands of a large, sensitive production environment

Technical Skills

- PHP
- VueJS
- CSS / SASS
- Laravel
- MySQL
- Docker
- Javascript
- HTML

Senior Full-Stack Engineer (Contract)

MenuLabs

Mar 2021 - Feb 2024 (3 years)

An American startup operating in the restaurant management space, delivering a multi-sided platform spanning inventory and menu management, customer-facing ordering, and real-time order fulfillment. The product required deep integration work across a wide range of external services within a rapidly evolving codebase.

Key Contributions

- Served as the de facto integration specialist, owning the implementation of all major third-party services - including payment gateways, external POS systems, and SMS/voice communications
- Evolved the application architecture as the product scaled beyond its initial scope, proactively refactoring critical areas to improve maintainability and leverage modern framework capabilities.
- Delivered high-impact customer-facing features across all three platform surfaces, contributing directly to product growth and user experience improvements.

Technical Skills

- PHP
- Typescript
- HTML
- Laravel
- VueJS
- CSS / SASS
- Javascript
- MySQL
- Docker

Senior / Lead Full-Stack Engineer (Contract)

Massachusetts Technology Innovation

Jun 2020 - Mar 2021 (10 months)

An American pharma-tech startup focused on streamlining the creation and management of regulatory documentation for medicines and pharmaceutical equipment. The platform combined a sophisticated in-browser PDF editor - featuring digital signatures and complex document manipulation - with a configurable workflow engine for end-to-end documentation authoring, all built to comply with FDA data integrity and audit trail requirements.

Key Contributions

- Led the core development effort across the workflow engine and PDF editor, implementing the majority of the platform's most technically demanding functionality
- Designed for compliance and scale, structuring the application into microservices where appropriate and enforcing FDA-aligned versioning, data integrity, and security requirements throughout
- Improved developer experience and maintainability through targeted refactoring of critical application layers, reducing friction as the codebase grew in complexity

Technical Skills

- PHP
- Typescript
- HTML
- Laravel
- VueJS
- CSS / SASS
- Javascript
- MySQL
- AWS

Senior / Lead Full-Stack Engineer (Contract)

Advisr

Jan 2020 - May 2020 (5 months)

An Australian insurance brokerage seeking to modernize their platform away from a heavily customized, legacy WordPress codebase that had become a bottleneck for further development. We delivered a purpose-built replacement with a flexible architecture within a short timeframe, encompassing broker profile management dashboards and a customer-facing broker review and rating system.

Key Contributions

- Led the full platform rewrite, providing architectural direction and hands-on implementation guidance throughout the migration from the legacy WordPress system to a modern, scalable stack
- Designed a flexible, extensible architecture capable of supporting the client's long-term customization roadmap - replacing years of accumulated technical debt with a maintainable, future-proof foundation

Technical Skills

- PHP
- jQuery
- CSS / SASS
- Laravel
- MySQL
- Docker
- Javascript
- HTML

Backend Engineer (Contract)

The Web Room

Apr 2019 - Dec 2019 (9 months)

A Romanian travel-tech startup building an aggregation platform that consolidates vacation and accommodation data from multiple third-party sources into a unified, client-facing API. The core engineering challenge lay in integrating heterogeneous data sources, normalizing their output, and exposing it in a clean, consistent interface for downstream clients

Key Contributions

- Owned and implemented the full suite of data source integrations, handling the ingestion and normalization of accommodation and vacation data across multiple external providers
- Designed and refined the client-facing API layer, ensuring aggregated data was served in a logical, consistent, and scalable manner suited to diverse client consumption patterns

Technical Skills

- PHP
- Laravel
- MySQL
- AWS
- Docker

Full-Stack Engineer (Contract)

AirTreks

Feb 2018 - Dec 2018 (11 months)

An American air travel company operating a suite of interconnected APIs and customer-facing applications for flight aggregation and booking. The platform consolidated flight and ticket data from multiple external sources, exposing it through consumer applications covering core travel workflows - including flight search, booking, ticket generation, and contract management.

Key Contributions

- Delivered new features across the full application stack, contributing to both the aggregation APIs and the customer-facing booking experience
- Improved and optimized existing API functionality, enhancing the reliability and consistency of flight and ticket data flowing through the platform

Technical Skills

- PHP
- Laravel
- Javascript
- jQuery
- MySQL
- HTML
- CSS

Full-Stack Engineer

Target-E Digital

Jun 2016 - Feb 2018 (1 year 9 months)

A Romanian digital agency delivering a broad portfolio of web projects, from presentation websites to complex automotive dealership platforms with contract generation and documentation management. Worked in close collaboration with a German sister company on marketing-integrated solutions, with frequent direct client engagement throughout the delivery process.

Key Contributions

- Contributed across a diverse project portfolio, implementing new features and improving existing solutions spanning a wide range of industries and technical complexity levels
- Ensured long-term project health through ongoing maintenance, bugfixes, and dependency updates across multiple concurrent client engagements
- Acted as a direct client liaison, handling requirements gathering and technical consultancy - streamlining communication between stakeholders and the development team

Technical Skills

- PHP
- TYPO3 CMS
- Javascript
- jQuery
- MySQL
- HTML
- CSS
- Vagrant

Full-Stack Engineer

Freshbyte

Jun 2014 - Oct 2015 (1 year 5 months)

A Romanian development studio where I began my professional career, working on a CRM platform for a real estate agency. The application covered core real estate workflows including property evaluation management and contract generation. Over time I progressively took ownership of the project, eventually becoming the sole engineer responsible for its development and maintenance

Key Contributions

- Delivered bugfixes and iterative improvements across the platform, with a particular focus on the real estate contract generation workflow
- Grew into full ownership of the project, transitioning from a supported junior role to sole engineer through demonstrated reliability and expanding technical capability

Technical Skills

- PHP
- Javascript
- jQuery
- MySQL
- HTML
- CSS