

Iosif Vigh

Senior Software Engineer

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SUMMARY

I am a Senior Software Engineer with **10+ years** of experience architecting systems using **Node.js** and **Laravel**, specialising in backend development, cloud infrastructure and DevOps automation. Proven track record in various engineering roles for clients across industries like fintech, healthtech, and regulatory compliance. I turn complex requirements into **maintainable, high-performance systems** through strategic architecture, clean code, automated testing and resilient deployments - paired with good documentation and mentorship. A core focus is ensuring technical outcomes directly align with business needs. Public projects reflect my commitment to innovation and continuous learning. Seeking **fast-paced environments** leveraging modern stacks and agile practices to solve high-impact problems—whether collaborating within teams or driving solo initiatives.

SKILLS

Languages

Node.js Javascript Typescript
PHP Solidity bash

Frameworks

Laravel Express Loopback
Serverless Hardhat

Dev-Ops

AWS GCP Terraform CI/CD
Github Actions Vercel Docker

Databases

MySQL PostgreSQL
MongoDB AuroraDB
DynamoDB Redis SQLite

Architectures

MVC Microservices
Serverless Client server
Event-driven Monolith

Standards

Caching ORMs SOLID
ACID Indexing REST
OpenAPI JWT CLI

WORK EXPERIENCE (6)

Aug 2018 - Current

Contractor Software Engineer at [Casa4 - own LTD \(London, UK\)](#)

Provided contractor services through my own LTD, Casa4, in between other roles. The following is a list of the most notable projects, specialising in Laravel and Node.js. Involved both in team-based development and solo application building from design to deployment and maintenance.

■ **ElectroRent** (*Laravel, MySQL, SQLite, Bash*)

As a **Backend Engineer** I worked on the API of a large tool renting platform built with Laravel. Responsibilities included designing and implementing new API endpoints, creating database migrations, building new features, debugging complex issues, and optimizing performance across critical application areas.

■ **Aliat Optic** (*Node.js, Serverless Framework, Lambda, DynamoDB, AWS, MySQL, Laravel, DigitalOcean*)

As a **Solution Architect** I designed and developed an invoicing app, integrating external FTP data via AWS Lambda and DynamoDB. This application was successfully used in production for about 3 years with minimal maintenance, demonstrating reliability and efficiency.

■ **Hurlingham Club** (*Laravel, Laravel Forge, Laravel Envoyer, MySQL, AWS, Docker*)

As a **Backend and DevOps Engineer** I led the migration of a large application from a paid provider to the client's own servers. My responsibilities included provisioning the new infrastructure, setting up the CI/CD pipeline, updating the

code from PHP5.5 to PHP8.1, updating all the dependencies to the latest stable versions, making sure no data was lost in the DB and creating diagrams to explain each step of the process to the stakeholders.

- **TicketTailor** (*PHP, MySQL, SQLite*)

As a **Backend Engineer** I worked on the API of the second largest ticketing application in Europe. Designed and implemented a testing framework using PHPUnit to automatically scan OpenAPI specs and validate each API endpoint, including all new additions. This significantly improved deployment times combined with strategically assigning tests to the appropriate level (unit, integration, acceptance). Also contributed by adding numerous endpoints to the client-facing API.

Mar 2021 - Sep 2024

Fractional CTO at Artetra (remote)

Translated business requirements into actionable project features and oversaw application architecture.

- Led the development and launch of the MVP, leveraging a team of part-time contractors and very limited resources.
- Designed and managed a technology ecosystem comprising a backend Express API integrated with blockchain smart contracts (Solidity), and a React frontend with 3D components (ThreeJS).
- Supervised deployments to AWS infrastructure using Docker, ensuring robust and scalable operations.
- Managed a team of 3-4 developers, providing technical guidance and support.
- ↪ Technologies: Node.js, React, ThreeJS, Solidity, Hardhat, Express, Postgres, MongoDB, AWS, Docker

Oct 2019 - Sep 2022

Software Engineer at [True Compliance \(London, UK\)](#)

Contributed to the development of a cloud-based compliance management system, enhancing compliance tracking and reporting capabilities.

- Developed the main API of the system and contributed to designing the ecosystem's serverless architecture, leading to a robust and scalable solution.
- Created a reporting application that enabled non-technical stakeholders to preview any key metrics.
- Developed various tools for internal use in VueJS, as well as admin dashboards in Laravel Nova for system performance monitoring and reporting.
- Also built a bespoke real-time caching system that stores processed relational MySQL data into a MongoDB database controlled and accessed by a serverless API. The purpose is to vastly increase the speed for final users down to near instant results and reduce the load on the main database.
- ↪ Technologies: Laravel, Laravel Nova, Laravel Vapor, AWS, SQS, VueJS, Node.js, Serverless Framework, Lambda, CLI, Bash

Nov 2018 - Oct 2019

Software Engineer at [Skin Analytics \(London, UK\)](#)

Designed and developed main applications and maintained AWS infrastructure, contributing to the company's mission of improving skin health.

- Led the migration from a NoSQL database (CouchDB) to a relational database (MySQL), resulting in an 11x speed increase without affecting the frontend or user experience. This was achieved by a series of steps, including, creating scripts and processes for provisioning a new server, exporting the CouchDB records, normalising the data, importing it into the newly created server and database, then finally running a series of checks to ensure consistency.
- ↪ Technologies: Node.js, Express.js, TypeScript, CouchDB, AWS, Loopback, pm2, Angular

Feb 2017 - Nov 2018

Application Developer / Dev-Ops at [Wooba \(London, UK\)](#)

Sole Backend Engineer responsible for designing, developing, and supporting client applications, driving business growth.

- Developed and maintained nationwide educational platforms, enhancing the learning experience for thousands of users.
- Built a comprehensive financial management application with Laravel and Vue.
- Streamlined the management of DigitalOcean droplets through a comprehensive CI setup, resulting in faster deployment processes and increased reliability.
- ↩ Technologies: Laravel, DigitalOcean, Laravel Forge, MySQL, VueJS

Jan 2014 - Feb 2017

PHP Application Developer at iQU Group (Amsterdam, NL)

Marketing solutions for game developers.

- Developed and maintained both vanilla PHP and Symfony applications, delivering new features and resolving bugs.
- Implemented complete APIs and reusable libraries, supporting team productivity and project scalability
- A couple of the APIs required an internal client, which I built using AngularJS.
- Contributed to a mobile monitoring project using Java and PipelineDB, enhancing system monitoring capabilities.
- ↩ Technologies: PHP, Laravel, Symfony, API, MySQL, Git, Docker, CLI, PHPUnit, AngularJS, Java

PROJECTS (5)

Recspenses

🔗 <https://www.github.com/iosifv/recspenses/>

A production-ready financial web application to calculate recurring monthly expenses. Initially started as a training project to practice my full-stack skills. Features include: a simple UI, multi-currency support including cryptocurrencies and an intuitive tagging system for expense labelling.

I used the "T3 Stack" which is a web development stack focused on simplicity, modularity, and full-stack typesafety. The full technology list is: *NextJS, tRPC, TypeScript, Node.js, Clerk, Drizzle ORM, PostgreSQL, Tailwind CSS, Vercel, GHA*

CLI Path

🔗 <https://iosifv.github.io/cli-path/>

Created a CLI tool to check Google Maps API directions, with saved locations, authentication, and a custom serverless API layer to simplify token management - built for training, touching multiple technologies: *Node.js, Serverless Framework, AWS, Auth0, OpenAPI, VHS, npm, GHA*

Casa4 website

🔗 <https://casa4.co.uk/>

An overengineered personal website built for learning purposes. Themed with *Hugo*, built with *Terraform* and *Cloudfront*, deployed to *AWS S3* with *Github Actions*.

T3 (Terminal Toolbelt Two)

🔗 <https://www.github.com/iosifv/t3/>

Inspired by the naming of Amazon's S3, I built T3 to resemble a framework for improving a terminal user's experience. Features include: an install script, platform selection (osx, ubuntu) specific scripts as well as agnostic ones, multi-machine installs. The interface is powered by *charmbracelet/gum*, a Terminal UI framework written in Go.

Hidden Hash (Cluj-Napoca, RO)

Personal business dealing with mining cryptocurrencies. Worked on Business model, legal compliance, hardware setup, software & security optimization/tweaks/updates, Performance fine tuning with various Bash, Batch or PowerShell scripts.

EDUCATION (2)

2012 - 2010

Masters Management and Business Engineering at Technical University of Cluj-Napoca

Operations Management

Business Analytics

Marketing Fundamentals

Human Resource Management

Operations Management

2004 - 2009

Bachelor of Engineering Computer Science at Technical University of Cluj-Napoca

Object-oriented programming

Data Structures and Algorithms

Advanced Databases

Computer Networks

C++

Java

.NET

SQL

Lisp

Prolog

Xilinx

Assembly

x86 processor

Electronics

Physics

Mathematics

INTERESTS

Hobbies

Motorcycles

Photography

Chess

HiFi Audio

Boxing