

# Iosif Vigh

## Senior Software Engineer

London, (UK)

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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

Javascript   Typescript   PHP  
Solidity   bash

#### Backend

Node.js   Laravel   Express  
Serverless   Hardhat

#### Frontend

React   Vue   Angular

#### Cloud & DevOps

AWS   GCP   Terraform   Docker  
CI/CD   Github Actions   Vercel  
Observability   Infrastructure as Code

#### Databases

MySQL   PostgreSQL   Aurora  
MongoDB   DynamoDB   Redis  
SQLite   Data Modeling  
Query Optimization

#### Architecture & Design

System Design   SOLID  
Domain-Driven Design (DDD)  
Microservices   Serverless  
Event-driven   Monolith   MVC

#### Testing

PHPUnit   TDD   BDD   Unit Testing  
Integration Testing

#### Standards

REST   OpenAPI   Oauth   JWT  
OWASP

#### Methodologies

Agile   Scrum   Kanban   Lean  
Clean Code   Mentoring

### 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 enhanced application performance by optimizing critical API areas and expanded functionality by designing and implementing new endpoints for key business features.

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

As a **Solution Architect**, I designed and built a serverless invoicing application that operated reliably in production for over 3 years with minimal maintenance, processing external FTP data via AWS Lambda and DynamoDB.

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

As a **Backend and DevOps Engineer**, I orchestrated the migration of a major application to the client's own AWS infrastructure. This involved a full technology upgrade from PHP 5.5 to 8.1, provisioning new infrastructure, and establishing a modern CI/CD pipeline, ensuring zero data loss. Throughout the project, I created and presented diagrams to stakeholders to communicate the process and progress at each stage.

■ **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).
- Led a team of 3-4 developers, providing technical guidance, managing the product backlog, and supervising deployments to AWS infrastructure using Docker to ensure robust and scalable operations.
- ↪ 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.

- Architected and developed the core API and serverless infrastructure, establishing a robust and scalable foundation for all system operations.
- Built a suite of internal tools, including a Vue.js reporting application for non-technical stakeholders and Laravel Nova dashboards for system monitoring, significantly improving data accessibility and operational oversight.
- 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.

- Engineered and led the seamless migration from NoSQL (CouchDB) to a relational database (MySQL), achieving an 11x performance increase with zero downtime or impact on the user experience. The process involved creating custom migration scripts, data normalization, and rigorous consistency checks.
- ↪ Technologies: Node.js, Express.js, TypeScript, CouchDB, AWS, Loopback, pm2, Angular

Feb 2017 - Nov 2018

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

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

- Designed, built, and maintained multiple large-scale applications, including a nationwide educational platform serving thousands of users and a comprehensive financial management tool, using Laravel and Vue.js.
- Established a comprehensive CI/CD pipeline using Laravel Forge for DigitalOcean infrastructure, which significantly accelerated deployment cycles and improved application 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 a variety of marketing applications using vanilla PHP and Symfony, delivering new features and resolving bugs.
- Key contributions included implementing scalable APIs, building reusable libraries to enhance team productivity, and creating an internal client with AngularJS
- ↪ Technologies: PHP, Laravel, Symfony, API, MySQL, Git, Docker, CLI, PHPUnit, AngularJS, Java

## PROJECTS (5)

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### Recspenses

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

A full-stack, production-ready web app for tracking recurring expenses, built to practice modern, full-stack type-safe development. Features include: a simple UI, multi-currency support including cryptocurrencies and an intuitive tagging system for expense labelling.

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/>

A CLI tool for checking Google Maps directions with saved locations and a custom serverless API for 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)

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2010 - 2012

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

Operations Management

Business Analytics

Marketing Fundamentals

Human Resource 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

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### Hobbies

Motorcycles

Photography

Chess

HiFi Audio

Boxing