

# STAVROS RAFTOPOULOU

Full-Stack Developer | Vue.js, [Node.js](#) & Javascript/Typescript

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## Professional Summary

I've spent the last 15 years building web platforms that actually need to work—the kind where downtime means real consequences. My background is in regulatory tech (radiation safety systems for Greece's Atomic Energy Commission), which taught me a lot about building reliable software that scales. I work primarily with Vue.js, Node.js, and TypeScript, and I've been the go-to person for everything from initial architecture through deployment and maintenance.

Now I'm looking to bring that experience to a product-focused company where I can work with a team rather than flying solo. The systems I've built serve about 12,000 organizations and handle around 50,000 transactions annually—so I'm comfortable with scale. What I'm most interested in is joining a team where I can contribute to building something people use every day, not just maintaining compliance systems.

## What I Work With

### Frontend Development

- Vue.js 3 (Composition API, Options API), Quasar Framework, Vuex and Pinia for state management
- JavaScript (ES6+), TypeScript, HTML5, CSS3, Responsive Design
- Modern SPA patterns, Component Architecture, State Management

### Backend Development

- Node.js, Express.js, RESTful API Design
- PostgreSQL (query optimization, migrations), SQL Server, MongoDB
- Database design, Performance tuning, Data migrations, Spatial queries

### DevOps & Tools

- Docker, CI/CD pipelines, Linux environments, Bash scripting
- Git/GitHub, Agile workflows, Code review practices
- System architecture, Multi-tenant applications, Security best practices

### Additional Technologies

- Python (scripting), AI/ML integration (worked with Ollama for Greek text processing and document parsing), React (familiar)

## Professional Experience

### Principal Technical Architect

Greek Atomic Energy Commission (EEAE) | Athens, Greece | 2013 – Present

- Built Greece's national Personal Dosimetry Platform from scratch using Vue.js 3, Node.js, and PostgreSQL—sole developer for a system serving 12,000+ organizations and processing 50,000 annual compliance transactions. Maintained 99.5% uptime over 12 years (total downtime: ~43 hours, mostly planned maintenance).
- Led complete modernization from legacy Actian Ingres to JavaScript stack, reducing administrative workflows from 4 hours to 20 minutes (90% efficiency gain). Coordinated with stakeholders across hundreds of organizations while ensuring zero downtime during migration.
- Designed and implemented RESTful APIs with zero-tolerance security for sensitive medical data—zero breaches in 12 years. Built a comprehensive audit logging tracking every database action with timestamp, user ID, and IP address.

- Developed TIASuite, an enterprise multi-tenant radiation safety management system with real-time monitoring, role-based access control, automated compliance reporting, and scheduled PDF generation.
- Implemented AI integration using Ollama for Greek regulatory document processing, improving efficiency by 60% (required custom fine-tuning for technical Greek language).
- Established Docker containerization and CI/CD pipelines, transforming unreliable manual deployments into automated, stress-free processes. Mentored junior developers in Vue.js, TypeScript, and database design.

## Freelance Full-Stack Developer

Self-Employed | Athens, Greece | 2018 – Present

- Built custom web applications for Greek SMBs requiring solutions beyond off-the-shelf software. Recent project: real-time inventory synchronization system for olive oil distributor with 6 warehouses and Shopify integration, preventing overselling during harvest season.
- Maintained 70% client return rate for additional features and v2 projects (primarily word-of-mouth referrals). Work in 2-week development cycles using Agile methodology with weekly client demos. Primary stack: Vue.js 3, Node.js, PostgreSQL/MongoDB.

## Key Projects

### Personal Dosimetry Platform *(Production System)*

National occupational radiation exposure tracking and monitoring system managing safety records for 50,000+ radiation workers across 12,000+ organizations. Ensures regulatory compliance with real-time dosimetry data management, exposure threshold alerts, and comprehensive worker safety analytics.

**Stack:** Vue.js 3 + Quasar Framework, Node.js/Express/Sequelize, MS SQL Server, Docker

**Ownership:** Complete end-to-end ownership—architecture, development, deployment, and ongoing production maintenance

### Ionizing Radiation Regulatory Management Platform *(Production System)*

Enterprise-grade, multi-tenant platform serving Greece's national radiation protection authority. Manages regulatory oversight, licensing workflows, and compliance operations for 2,500+ ionizing radiation facilities across 12,000+ organizations, processing 50,000+ annual transactions.

**Tech Stack:** Vue.js 3, [Node.js](#), Sequelize, SQL Server, n8n, AI agent

**Core Capabilities:** Role-based access control, comprehensive audit trails, real-time monitoring dashboards, automated regulatory reporting, bilingual support (Greek/English)

### Portfolio Site ([sraftopo.com](#))

Simple showcase of my projects and case studies (GreekNameCorrection, Keema Music Services).

Built with Vue.js 3.

## Education

**M.Sc. Smart Cities & Digital Culture** | University of Piraeus, 2021

**M.Sc. Computer Science** | University of Piraeus, 2015

## Continuous Learning

I try to stay current with the JavaScript ecosystem as it changes fast. Recently, I've been focusing on Vue 3 Composition API patterns, advanced TypeScript features, PostgreSQL performance tuning, Docker best practices, and alternatives to Docker like Podman, and MongoDB (since I mostly work with SQL databases and want to be more flexible). Also went through some Agile/Scrum courses since my current role doesn't really use those methodologies.