

# Christopher Farrugia

Full Stack Developer & Linux Enthusiast  
Focused on IoT, Microservices, and Real-Time Systems

## Summary

A self-taught and results-driven software developer with over seven years of experience in designing and building scalable applications, including three and a half years in professional full-stack development. I specialize in creating clean, efficient, and maintainable solutions across both front-end and back-end technologies, including Vue.js, Node.js, Laravel, PostgreSQL/MySQL, Redis, RabbitMQ, Docker, and Linux server administration.

I've led multiple IoT integrations using LoRa, Sigfox, and NB-IoT, developing real-time systems that enhance user experience and operational efficiency. Currently, I'm deepening my expertise in Golang, TypeScript, and microservice architecture to build high-performance, event-driven applications that bridge hardware and software.

## Relevant Experience

### Lead Software Developer • IoT Solutions Malta

September 2022 — Present

- Lead developer (and initially sole engineer) responsible for architecting, building, and maintaining the company's IoT and fleet-management platform — covering server management, backend logic, microservices, and frontend integration.
- Designed and deployed real-time data pipelines for connected devices, including **Teltonika trackers** and custom **IoTPro sensors** (temperature, humidity, pressure, radar, generator).
- Developed Linux-based parsers to process **TCP/UDP** payloads, decode and structure telemetry, and forward data through **RabbitMQ** and **Kafka**, with **Redis** for caching and synchronization.
- Engineered full cloud integration for in-house IoTPro devices, implementing **FOTA updates**, bidirectional communication (uplinks/downlinks), and REST API integrations with ThingsBoard and internal dashboards for real-time monitoring and control.
- Manage **Linux servers**, **Docker deployments**, SSL configuration, and system monitoring to ensure platform reliability, scalability, and security.
- Collaborated on external projects such as **machine-data collection for the Malta Gaming Authority** and a **Laravel dashboard for Marine Hound** visualizing harbour-emission data (SO<sub>2</sub>, CO<sub>2</sub>).

## Selected Project

**iotrack.live** *Full-Stack IoT & Fleet Management Platform* <https://iotrack.live> ↗

Personal side project built to explore scalable, real-time IoT architecture.

A full-stack application enabling live tracking and telemetry for vehicles, people, and assets — developed with **Vue 3**, **TypeScript**, **Golang**, **Node.js**, **RabbitMQ**, **Redis**, **PostgreSQL**, **Docker** and **Linux**.

Includes live map visualization, automated reporting, and real-time microservice communication designed to mirror production-level IoT systems.

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[github.com/foxcodenine](https://github.com/foxcodenine) ,  
[github.com/ChrisFarrugiaDev](https://github.com/ChrisFarrugiaDev)

<https://www.linkedin.com/in/christopher-farrugia-3a51184b/>

[chrisfarrugia.dev](https://chrisfarrugia.dev)

## Skills

### Programming Languages

JavaScript, TypeScript, PHP,  
Golang, HTML, SASS & CSS

### Libraries & Frameworks

Vue JS, React, Laravel, Node JS,  
Tailwind, Bootstrap

### Database Management

MySQL, PostgreSQL, MongoDB,  
Redis

### DevOps & Tools

Linux & Bash, Docker, Apache,  
RabbitMQ, Kafka, Git & GitHub

## Certifications

### MQF Level 5

'VET Award for Development  
with MySQL and PHP'

### Zend Certified Engineer

PHP 7.1 ZEND033155

### LPIC-1 Linux Administrator

[lpi.org/v/LPI000519379/fpju2febd3](https://lpi.org/v/LPI000519379/fpju2febd3)

## Languages

**English** speak, read, write

**Maltese** speak, read, write

**Italian** speak

## Interests

**Distance Running:** Regular participant in local and international half-marathons.

**Chess:** Passionate about strategy and continuous improvement through online study and practice.

**Volunteer Work:** Served with *St John Ambulance* (2012–2020),

**Personal Interests:** Learning, photography, & painting.