

Filipe Lobo Del Monte


Senior Software Engineer | Full-Stack Developer | Team Lead | 10+ years exp

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Eligible to work in Switzerland 🇨🇭

Work Experience

Senior Software Engineer | Team Lead @ Nexxiot AG


 **March 2018 – Present** (7 years) - Zürich, Switzerland

Nexxiot is a TradeTech company enhancing global transportation with real-time visibility and analytics.

 TypeScript  Node.js  Deno  Angular  AWS  Docker  Nx  monorepo

- Played a key role in the company's growth from 30 to 150 people.
- Led the development of major software projects, including Nexxiot Connect Platform, Map Matching API, Access Tokens API, and Shock Classification.
- Leadership experience, scaling the frontend team from 2 to 12 developers, fostering a culture of innovation and collaboration.
- Built a robust development pipeline and established best practices for software development, including CI/CD (Gitlab).
- Strong experience in DevOps, with expertise in Docker, Kubernetes, and observability using Datadog.

Software Developer @ Flow Pilots


 **February 2015 – December 2017** (2 years, 10 months) - Antwerp, Belgium

A Microsoft Partner delivering innovative digital solutions.





 TypeScript  AngularJS  C#  .NET Core  Azure

- Developed offline-first applications with **AngularJS & TypeScript**.
- Built scalable solutions with **C# and .NET Core** on **Azure**.

Software Developer @ Proradis


 **May 2014 – November 2014** (6 months) - Ribeirão Preto, Brazil

Healthtech company specializing in diagnostic solutions.

 PHP  CodeIgniter  JavaScript  jQuery  Bootstrap

- Developed and maintained healthcare applications using **PHP (CodeIgniter), JavaScript (jQuery, Bootstrap)**.

Software Development Intern – Medical Systems @ Kidopi

 **September 2012 – April 2013** (7 months) - Ribeirão Preto, Brazil

Innovative medical informatics company focused on healthcare solutions.

 Objective-C  iOS  PHP

- Developed **iOS applications in Objective-C** for patient registration.
 - Assisted with backend development in **PHP**
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Major Contributions

Map Matching API (@ Nexxiot AG)

Developed a SaaS solution for mapping raw GPS location data to rail and road networks using the Valhalla routing engine. Key features include data filtering and deduplication, a persistent context window for real-time path correction, fast in-memory geodecoding, and a CLI for operational tasks. Built with **Hono, Valhalla, TypeScript, Jest, Docker, and Kubernetes**.

Identity & Access Management | Access Tokens API (@ Nexxiot AG)

Led the development of Nexxiot's user management system, migrating from an in-house PHP-based solution to **AWS Cognito** and a proprietary **OIDC-compliant identity server**. Designed and implemented an **Access Tokens API** to enable secure, stateless communication for third-party and machine-to-machine authentication. Required deep expertise in **web security**, **OAuth/OIDC protocols**. The latest version was built with **Deno**, **TypeScript**, and **Hono**.

Shock Type Classification (@ Nexxiot AG)

Collaborated with ML engineers to develop a system for classifying shock events using accelerometer data from train-mounted devices. Built an API for shock classification, a Kafka consumer for event processing (shunting, load drop, and derailment detection), and a UI for visualizing shock events. The API was developed with **FastAPI (Python)**, while the Kafka consumer and UI were built with **TypeScript**.

Nexxiot Connect Platform (@ Nexxiot AG)

Primary contributor to one of Nexxiot's largest and longest-running repositories, structured as an **NX monorepo** housing all frontend projects. Led the migration from **AngularJS & jQuery** to a modern **Angular-based** ecosystem. Established a **design system** and an architecture supporting five Angular applications, all leveraging NX for optimized testing and linting. The tech stack includes **Angular**, **NX**, **Jest**, **Cypress**, **Tailwind**, **Docker**, **Kubernetes**, and Angular's latest **signals** reactivity model.



Tech Stack

- **Backend:** Node.js, Deno
- **Frontend:** Angular, NextJS, React, Tailwind
- **Languages:** TypeScript, Python, PHP
- **Databases:** Postgres, CockroachDB, DynamoDB
- **Cloud & DevOps:** AWS, serverless functions, Docker (compose), Kubernetes, GitLab CI
- **Other Tools:** NX, Cypress, Jest, Datadog, Poetry



Education

- **B.Sc. in Biomedical Informatics** - Universidade de São Paulo (2011 - 2014)
- **Exchange Semester** - Polytechnic Institute of Leiria (2013 - 2014)



Languages

- Native proficiency in Portuguese
- Fluent in English
- Basic German understanding