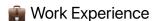
Filipe Lobo Del Monte

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

Location Zürich, Switzerland Email filipedelmonte@gmail.com Phone +41 79 817 00 54 GitHub Profile LinkedIn Profile

Eligible to work in Switzerland



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.



- 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.



- 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.



• Developed and maintained healthcare applications using PHP (Codelgniter), 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.



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

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.

in 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 Cl

• 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)

篖 Languages

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