



Sebastian Mihalache

CTO & Co-founder at **Rastel** · Software architecture · Cloud infrastructure · Full-stack

✉ contact@sashamihalache.com sashamihalache.com [↗ LinkedIn](#) [↗ GitHub](#) [↗ Twitter](#)
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About

Summary

CTO & co-founder with 10+ years of experience building software products end-to-end — from system architecture and cloud infrastructure to web and mobile apps. I lead software and infrastructure at Rastel, including the city-wide Vélobox platform for the Ville de Lausanne.

Experience

2025 - Present

CTO & Co-founder **Rastel**

Vélobox Lausanne — City-Wide Smart Bike-Parking Platform

Architected and built the software platform and cloud infrastructure behind the **Ville de Lausanne** Vélobox program, delivered end-to-end for an enterprise public-sector client.

- **City-wide platform for 1,000 bike-parking spots.** Jan–Aug 2026: **1,600+ registrations, ~300 active subscribers and 24,500+ app unlocks.**
- Designed an **11-state subscription lifecycle** and a **concurrency-safe waitlist & spot-allocation engine.**
- Enterprise foundations: **Worldline payments with verified, idempotent webhooks**, PII encryption and role-based access (19 permissions).
- Production infrastructure: **containerized services, GitLab CI/CD with security scans**, Grafana/Loki monitoring and **300+ automated tests.**

TypeScript, Node.js, GraphQL, PostgreSQL, Next.js, Docker, GitLab CI/CD, Grafana

2024 - Present

CTO & Co-founder **Rastel**

Company & Technology Leadership — Smart Bike-Parking for Cities

Co-founded a smart-city startup delivering turnkey bike-parking infrastructure for municipalities and businesses; I lead software and infrastructure.

- **Own the software and infrastructure strategy**, turning one-off builds into a reusable product.
- **Led the shift from pilots** in Romania, Slovakia and Greece **to city-scale contracts** such as the Ville de Lausanne.
- **Set engineering standards** for a lean team: security scanning, automated testing and AI-assisted development.

Focus – Software architecture, cloud infrastructure, product & R&D leadership

2024 - 2025

Lead Software Engineer **Komoder**

Custom E-Commerce Platform for High-End Massage Chairs

Sole engineer on a bespoke e-commerce platform for a luxury retailer, reporting directly to the CEO.

- Architected a **high-performance headless commerce platform** with streamlined discovery and checkout.
- Integrated **Stripe payments** and owned technical decisions across security and performance.

Next.js, Strapi, Node.js, Stripe, PostgreSQL

2022 - 2024

Web3 Developer **FluidTrends**

NFT Event Platform — Map, Dashboard & Mobile App

Built web and mobile products for NFT-based event check-ins and rewards.

- Engineered a **WebGL map rendering 100,000+ interactive markers** on Uber's H3 grid.
- **Built a reusable SDK** over the GraphQL API, shared by the web dashboard and the mobile app.
- Shipped **AI-generated avatars** in the React Native app — an early production use of generative AI.

Next.js, React Native, Node.js, Mapbox, WebGL, GCP

2020 - 2022

Principal Engineer **ROOM**

IoT Analytics Platform & On-Demand Booking App

Analytics platform and booking app for a modular-workspace company.

- **Increased new sales opportunities by 40%** with customer-facing analytics dashboards.
- **Helped drive a 10x increase in business valuation** by architecting the IoT data platform.
- **Grew revenue by 18%** with an on-demand meeting-room booking app.

Next.js, React Native, Node.js, Ruby on Rails, GCP

Earlier experience

2021

Senior Frontend Engineer **Mindera**

Made checkout 23% faster for a global luxury fashion retailer.

2019 - 2020

Technical Lead **Wolfpack Digital**

Cut 2 months from delivery of a banking & investments app as technical lead.

2018 - 2019

Technical Lead **Evozon**

Made a professional translation editor **25% faster** and **boosted translator productivity by 30%**.

2015 - 2018

Senior Frontend Engineer **Evozon**

Cut drug-acceptance timelines by months with a suite of pharmaceutical apps.

Education

2012 - 2016

Bachelor's Degree in Computer Science
Technical University of Cluj-Napoca