

# Alex D'agostino Aleksandrov - Web developer

## About Me

I am passionate about **hardware**, **software**, and **automation** — especially the intersection where they all meet. Throughout my career, I've worked in **hybrid** roles that bridge **software development** and **DevOps**, allowing me to follow the entire lifecycle of an IoT or (pure) web product. From designing and building the client-facing applications (**frontend**) to developing the API and business logic layers (**backend**), and all the way to deploying and maintaining the underlying infrastructure, I've been involved in every step of the process.

## Professional Experience

### Phasefour, Eindhoven, NL | iOS Developer | Salvo Geotracking solution

*January 2024 - March 2024*

- Developed a **battery-efficient** user tracking app using client-side geofencing (**Swift**, **SwiftUI**, **SQLite**, **iOS**).
- Achieved **less than 10% daily battery consumption** while maintaining reliable background operation.

### Phasefour, Eindhoven, NL | Full Stack Developer | Salvo Geotracking solutions

*March 2024 - April 2024*

- Created a **geofence drawing tool** and project organization platform using **C#**, **ASP.NET**, **Azure services** and **React**.
- Enabled **near-instant geofence suggestions** based on historical data and user location.
- **Automated geofence loading and project creation workflows** for users.

### Phasefour, Eindhoven, NL | Full Stack Developer | Frijado

*April 2024*

- Designed and built a **POC** that led to **client acquisition**, incorporating:
  - **React UI** and **Express** backend simulating IoT devices
  - **ASP.NET** backend with Azure services such as **IoTHub**, **Cosmos DB**, **Blob Storage**, **Event hub**, **Tables**

### Phasefour, Eindhoven, NL | Full Stack Developer | Frijado

*May 2024 - January 2025*

- Delivered a full-featured **real time IoT dashboard** using **C#, ASP.NET, React18, Microsoft EntraID, MSSQL**.
- Features included **device onboarding, monitoring, custom rule engine, application insights**, and secure auth via Entra ID.

### Sense Reply/Gridspertise

*February 2025 - September 2025*

- Working on distributed system architecture with technologies such as **Go, Rust, Wasm, Dapr, Openshift** and many more.
- Key contributions:
  - Integrating apps with **OpenTelemetry** standards for metric collection
  - Integrated monitoring and observability through **Prometheus** and **Loki** for metrics and log aggregation.
  - Developed and deployed **Twelve Factor web services**
  - Designed an **Observation API** integrating with **InfluxDB** and **MongoDB**
  - **Removed technical debt** through refactoring or full rewrites
  - **Reduced CPU usage by 10x and RAM by 15x** across multiple microservices
  - **Added comprehensive documentation and OpenAPI/AsyncAPI specifications**
  - Wrote test suites featuring unit and integration tests. Used fuzzing to prevent crashes.

### MSC Technology (Turin) - Web developer

*September 2025 - Present*

- Working on the myMSC portal, improving bookings, schedules, file transfers, quotations and more (JS/TS, React + Vite, .NET8, .NET Framework)
- Greatly improved microfrontends, facilitating migration from nx to vite
- Removed high and critical vulnerabilities from client applications
- Improved legacy monoliths (.NET Framework)
- Broken down monoliths into lighter microservices (.NET 8 + React + Vite)
- Deploying and monitoring Azure resources
- Writing Azure pipelines for CI/CD

## **Open Source Contributions**

I actively improve tools I use daily, including:

- [vscode neovim](#)
- [dapr](#)

## **Education**

**Liceo Classico Antonio Canova, Treviso 2016 - 2021**

**Technical University of Eindhoven (TU/e) 2021 - 2023 Bachelor of Computer Science**

## **Languages**

- Italian (Native)
- Serbian (Native)
- English (Academic)
- Spanish (Advanced)

## **Find me on**

- [LinkedIn](#)