Alex D'agostino Aleksandrov - FS/IoT/Devops engineer

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 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. I have extensive hands-on experience in cloud-native environments, working with tools such as *Kubernetes*, *Docker*, *Argo CD*, and *OpenShift*, as well as with cloud provider ecosystems like *Azure DevOps*. This background enables me to design, build, and automate reliable, scalable systems end to end.

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.
- Quickly prototyped and optimized **under a tight 1-month deadline**.

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 Applications**
  - 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**

MSC Technology (Turin) - Full Stack/Devops

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](#)
- [ascanius config library](#)

Education

Liceo Classico Antonio Canova, Treviso *2016 - 2021*

Technical University of Eindhoven (TU/e) *2021 - 2024* Bachelor of Computer Science

Languages

- **Italian (Native)**
- **Serbian (Native)**
- **English (Academic)**
- **Spanish (Conversational)**

Find me on

- [LinkedIn](#)
- [Github](#)

Updated cv

In case you wish to keep an eye on my cv, you can find the latest version on [Github](#)