Alex D'agostino Aleksandrov - IoT Developer

About Me

I've been captivated by the world of IoT for years - fascinated by the silent conversations happening behind the scenes between devices, microservices, and infrastructure. I love building the invisible layers that bring everyday products to life.

Professional Experience

Phasefour, Eindhoven, NL

February 2024 - March 2024

Mobile Application Developer - Salvo Geotracking Solutions

- 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

March 2024 - April 2024

Full Stack Developer - Salvo Geotracking solutions

- Created a geofence drawing tool and project organization platform using C#, ASP.NET, Azure, 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

April 2024 - **Frijado**

Full Stack Developer - Frijado Proof of Concept

- 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

May 2024 - January 2025

Full Stack Developer - Frijado

- 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.

CGM Consulting, Turin (Sense Reply / Gridspertise)

February 2025 - Present

Backend Developer

- Working on distributed system architecture with technologies such as **Go**, **Rust**, **Wasm**, **Dapr**, **Openshift** and many more.
- Key contributions:
  - 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**

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 - 2023 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