

# GÁBOR MONOSTORI

PHYSICIST AND SOFTWARE ENGINEER/ARCHITECT



## CONTACT

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🕒 29 Sep 1977

📍 Belgium

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## LANGUAGES

- › Hungarian – Native
- › English – Fluent
- › Dutch – Proficient
- › Spanish – Basic

## EDUCATION

### INFORMATION TECHNOLOGY – MSC

**Eötvös Loránd University**, Faculty of Informatics | 2006 – 2011

*Specialization in mathematical modelling, algorithm design and approximation.*

### PHYSICS – MSC

**Eötvös Loránd University** | 1998 – 2003

*Specialization in particle physics and astrophysics.*

## SUMMARY

I picture the craft of software as a basket of concepts — architecture patterns, design principles, trade-offs. Making the right decisions is like pulling out the 5–7 cards that matter for the problem at hand, then combining them with the right team and expertise. Physics taught me to think this way: find the model that fits. I've been applying that approach for 20+ years across life sciences, manufacturing, and fintech. See also my blog.

## SKILLS & TECHNOLOGIES

### Design

API (REST, GraphQL, gRPC, Protobuf), Design Patterns, Architectural Patterns, Test Driven Development, UI Design

### Programming Languages

TypeScript, Python, Go, C++, Java

### Databases

PostgreSQL, MongoDB, Redis, TimescaleDB, OrientDB, SQLite

### Machine Learning

Pandas, Scikit-Learn, PyTorch

### Full Stack Development

Frameworks (React, Angular, Next.js, FastAPI), State Management (Zustand, Redux, RxJS), Turborepo, WebSocket, PWA

### Distributed Architectures

Microservices, Redpanda, Kafka, MQTT

### DevOps & Cloud

AWS, Docker, Kubernetes, Helm, ArgoCD, Terraform

### Agentic Workflows

LangChain, LLMs (Anthropic, OpenAI), RAG

## EXPERIENCE *full history on LinkedIn*

### COFOUNDER & ARCHITECT

**ONDASH** | Jul 2023 – Present

*Built a multi-product fintech platform from scratch — event-driven architecture, AI agents, and rapid prototyping. Targeting automation on Hungarian and international markets.*

### DATA ENGINEER AND ARCHITECT

**Mustry Solutions** | Apr 2024 – Present

*Go-to engineer for connecting industrial systems — PLC data acquisition, MQTT pipelines, custom Ignition modules (Java). Designed an open-source unified tag engine.*

### FULL STACK DEVELOPER

**Barco** | Oct 2021 – Feb 2023

*Incubator project: took a research prototype and engineered it into a full video/audio streaming system with rule-based camera control. Piloted across multiple sites.*

### FULL STACK CONSULTANT

**Biomérieux** | Jan 2019 – Sep 2021

*Reworked a research prototype into a platform application for next-generation sequencing. Quickly pivoted to deliver a second application in response to COVID.*

### LEAD FRONTEND DEVELOPER

**Ontoforce** | Mar 2014 – Sep 2017

*Early hire at a startup that grew from a handful of people to 30+. Designed and built the first UI for a semantic search platform in life sciences.*