

Stage voor de opleiding Master Informatica

Titel: Bouwen aan een Industrieel Applicatie Platform

Gegevens bedrijf:

Naam: Mustry Solutions

Tel: +32483705697

Contactpersoon: Jasper Louage

mailadres: jasper.louage@mustrysolutions.com

Adres waar de student zal werken: Dreef Ter Elst 20 8560 Gullegem

Kort (min 90 uur) of lang (180 uur): **lang**

Korte beschrijving van de opdracht:

We are designing the architecture for a new product that will serve as the **"frontend for industry."**

Our goal is to build an open-source, React-based solution that seamlessly integrates with Industry 4.0 data architectures such as **Kafka, MQTT, AMQP, and UMH.**

One of the key challenges is ensuring the frontends are accessible both to developers—working in environments like **VS Code**—and to automation engineers, who are more accustomed to using **frontend builders.**

We also want to move away from the **traditional monolithic nature** of industrial applications by enabling **distributed frontends** that still provide a unified, cohesive system experience.

Since we are working with an open-code approach, we also aim to leverage **AI coding agents** to automatically generate large parts of the user interface, accelerating development and boosting productivity.

Technologieën die aan bod zullen komen:

- Go
- React
- Kafka
- MQTT
- Microfrontends
- Event-driven architecture