Software Engineering internship @ factry

Timeseer.AI Connector

With open IIoT solutions for industrial data collection and manufacturing execution (MES), Factry software empowers anyone to radically improve operations, from operator to plant manager.

Who we are

Factry's mission is to radically simplify the process of learning from industrial data, to unlock the full potential of people and processes. We keep it easy on the buzzwords, and like a down-to-earth and first-things-first approach.

With industry-proven solutions for data collection and data integration, we help companies bring clarity to the shop floor and beyond, facilitate reporting and run their operations with less downtime, costs and waste.

Back in 2016, we aimed to bring an open data culture to the world of process manufacturing. Today, our highly accessible IIoT solutions are running in plants across 5 continents, going from niche SMEs to multinationals.

About our product

Factry Historian is a powerful and easy-to-use data management platform for collecting, storing and visualizing industrial process data. Our historian software enables businesses to transform raw production data into actionable visual insights, drastically reduce downtime, avoid costs and drive a better overall plant performance.

Next to raw data collection and visualization, we are currently expanding the platform with an event detection framework, allowing users to derive discrete events from the incoming raw data streams and add extra context to these events, opening up a whole new data set for further analytics.

The internship: Timeseer.AI connector

The main focus of Factry Historian is to make data available so that our clients can use it in a variety of analysis tools. Our clients often ask us for an integration with Timeseer.AI, a data reliability and observability platform, so that they increase the quality of their data before using it in their analysis workflows.

This internship will cover the end-to-end development of a Factry Historian connector for Timeseer.AI. This means:

- Install a complete Timeseer.AI development system on a fresh Linux server.
- Develop a Timeseer.AI integration in collaboration with Timeseer.AI and Factry developers.
- Add the necessary code to authenticate to Factry Historian.
- Add the possibility to query time-series data from Factry Historian.
- Add the possibility to query event data from Factry Historian.

Next to this technical implementation, everything is unit-tested (where possible) and well-documented.

What we offer you

During the internship, you will be a full member of our Historian product development SCRUM team. You will:

- Attend the daily standups, sprint review and sprint planning meetings
- Have the ability to work independently and together in our team
- Learn technical skills from our experienced developers
- Have a dedicated internship coach to assist you during your internship

Our technology stack

These are the main technologies used at Factry, most of which you will also encounter during the internship:

OS: Linux (Ubuntu)
Programming languages: Go, Javascript
Databases: InfluxDB, PostgreSQL
UI Frameworks: Svelte (JS), Bulma (CSS)
Version Control / CI: GitLab