FRANCESCO CHEINASSO

Computer engineer

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Torino TO (10144)



EXPERIENCE

Kubernetes Developer & Cloud Network Designer

Ligo.io (Thesis)

March 2022 - Ongoing

Turin, TO

In my thesis I worked for Liqo.io, a project born in the Polytechnic of Turin, which allows to enable multi-cluster topologies in Kubernetes. During the thesis my main tasks have been:

- Redefine Ligo network for a multi-cluster environment, with minimum dependencies. A POC has been implemented using Linux Network Namespaces, IpTables, and Policy Routing.
- Develop a mechanism to check cross-cluster network connectivity in real time. This has been implemented inside a Kubernetes operator with controller-runtime and kubebuilder framework, using Go language.
- Allow Liqo monitoring for cross-cluster network using Prometheus and Grafana
- Extend Liqoctl (the Liqo CLI tool) to show status information about a Liqo installation and connected clusters. Go language and Cobra have been used.

Kubernetes Developer

Crownlabs

September 2021 - April 2022

Torino, TO

Crownlabs is a platform developed in the Polytechnic of Turin, it allows to run GUI applications as a service in a Kubernetes environment using a Web Frontend. During the project my main tasks have been:

- Implement a solution to add, deploy and manage generic applications in Crownlabs. Golang and controller-runtime have been used to implement those features inside a Kubernetes operator.
- test developed features using GinkGo framework.
- package VSCode Server and Jupyter Notebook in a Docker container to provide Demo applications to show the developed features.

Frontend Developer

Crownlabs

May 2021 - April 2022

Torino, TO

Crownlabs is a platform developed in the Polytechnic of Turin, it allows to run **GUI applications as a service** in a **Kubernetes** environment using a Web Frontend. During the project my main tasks have been:

- Design and implement the Crownlabs frontend using React.js, Ant Design and Tailwind. The chosen language have been Typescript
- React components have been documented using Storybook.js
- Interaction with Kubernetes API have been managed with GraphQL and Apollo Client.

Peer Mentor - Computer Science Course

Polytechnic of Turin

苗 September 2021 – January 2022 🛡 Torino, TO

Helped students during Computer Science's course laboratories, teaching Python and Problem Solving

LANGUAGES

English

First: B2



TECHNICAL SKILLS

Languages



Cloud

Kubernetes	Helm	Docker	Golang
Prometheus	Grafan	ia	

Frontend

	React.js	Bootstrap	Ant Design	Tailwind
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Backend

Spring	Kafka	MQTT	GraphQL	SQL

System and CI/CD

Linux	Networking	Git	Github
Github	Actions		

SOFT SKILLS

Team work	Pos	sitive	Curious
Communicative		Auto	nomous
Helpful Er	I Empath		

JOBS

Warehouse worker

Selebo Falegnameria Sas

EDUCATION

Master's degree in Computer Science

Polytechnic of Turin

Sep 2020 - Dec 2022♥ Torino, TO

Bachelor's degree in Computer Science

Polytechnic of Turin

■ Sep 2016 - Jul 2020 **▼** Torino, TO