



# Ștefan Muraru

## Senior Cloud Engineer

Iași, Romania

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↗ [LinkedIn](#), [GitHub](#)

### Skills

Javascript and Typescript

NodeJS and NPM

MongoDB

Google Cloud, Amazon Web Services

Kubernetes

Docker

OAuth2.0

Angular

PostgreSQL

Redis and KeyDB

RabbitMQ

Elasticsearch, Logstash and Kibana

## Profile

Results-driven **Senior Cloud Engineer** with **8 years** of hands-on experience designing and building cloud-native projects. Specialized in crafting high-throughput applications using modern technologies across the entire **back-end stack**, like **NodeJS**, **Typescript**, **MongoDB**, **PostgreSQL** and **Kubernetes**. Proficient in **building, managing, monitoring and scaling infrastructures** due to specific needs with security and costs in mind on both **AWS** and **GCP** using **IaC tooling**.

## Work

### Senior Cloud Engineer, Kubeshop

2022 — 2024

Led the **infrastructure management** as well as end-to-end architecture and development of the **authentication framework**, **microservices** and **GraphQL APIs** for the [Monokle Cloud](#) application at [Kubeshop](#).

- **Cut existing cloud costs** by over **60%** while also implementing the industry security and reliability practices. Employed monitoring, logging, tracing for **application and infrastructure monitoring**. Linked everything together through a reliable **service mesh** alongside securing communication with **mTLS** and **zero-trust principles**. All of this by also adhering to **IaC typings** through Terraform.
- **Implemented OAuth2.0 + OpenID Connect authentication** by deploying an on-prem Authorization Server as well implementing reliable Authorization Code, Client Credentials and Device Code flows using Elliptic Curve cryptography for token signatures.
- **Implemented a high-throughput, high-reliability content streaming API** for fetching repositories from multiple GIT providers and building metadata based on the code.
- Created and maintained **Github Actions configuration files** for building and testing as well as **Helm Charts & Kustomizations deployed on ArgoCD** to sum up for an end-to-end CI/CD process.

### Senior Platform Engineer, Bitdefender

2018 — 2022

In the **4 years** that I've worked at Bitdefender, I have:

- Worked on an internal platform that enables developers and testers to easily manage their code's lifecycle after development, from building, to deploying to multiple testing and staging environments before ultimately going to production.  
**Implemented multiple Kubernetes operators** for technologies such as **RabbitMQ, Prometheus and the Elastic Stack** (deep diving into operations like HA clustering, sharding, etc.) in order to facilitate the interaction between the engineers and the cloud platform.
- Designed and implemented from scratch a **hardware and software discovering and inventorying system** that in only a couple of months helped the company through multiple audits and also saved tens of thousands of dollars on alternative products.
- Architected and also implemented a highly-available, multi-region **mail templating gateway** through which the client emails are sent on behalf of the products. **Built, managed and worked with multiple message brokers and SMTP gateways** connected on a multi-region scale on high-availability requirements.
- Participated in the **design and implementation of infrastructure, Kubernetes deployment on multiple cloud providers** (such as **Google Cloud Platform, Amazon AWS** and on-premise infrastructure) as well as migration (Virtual Machines to Kubernetes), replication, scaling and authentication of services like **MongoDB, RabbitMQ, Redis** and **Elastic Stack** components using modern **OAuth2.0 flows**.

## Software Engineer, Yonder

2016 – 2018

Worked for **2 years** as a Full-Stack Software Engineer on a complex **GIS-mapping project** used by government entities. Duties included:

- developing frontend components using **Angular**, as well as
- mapping GIS, JSON and XML data through **.NET** and NodeJS APIs.

Went beyond that and migrated all the dev and staging environments into **Docker** containers in order to facilitate local development and shorten build and release times.

## Education

**Bachelor's Degree, Computers and Information Technology, Faculty of Automatics Control and Computer Engineering, "Gheorghe Asachi" Technical University, Iași**

2014 – 2018

**Master's Degree, Distributed Systems, Faculty of Automatics Control and Computer Engineering, "Gheorghe Asachi" Technical University, Iași**

2018 – 2020