

# Michał Tuśnio

Remote in Europe

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I am a multi-skilled DevOps & software engineer with **11+ years of experience** looking for challenges to help out with. I have extensive experience working both in the UK and, recently, in Poland.

I have been on all sides of the industry – a DevOps engineer, full-stack engineer, SRE, worked on embedded systems. In my spare time I built my own games and side projects. Passionate about simple but resilient architectures, tinkering with my own devices and self-hosting.

## Key skills

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Public clouds	AWS, OVHcloud
Containerisation & Orchestration	Kubernetes, Docker, AWS ECS
Service meshes	Istio, Linkerd
Software languages	Python, JavaScript/NodeJS, Bash, C, C++, Golang, GDScript
Infrastructure as Code	Terraform, Terragrunt, Ansible, Serverless, Pulumi, Helm
Monitoring and observability	Cloudwatch, Datadog, Grafana, ElasticSearch, Kibana, Prometheus, OpsGenie
CI/CD	Jenkins, Azure DevOps, GitHub Actions
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB
Other	Godot Engine, networking, serverless architecture, RESTful APIs
Languages	Polish (Native), English (Fluent), Mandarin (Intermediate), Cantonese (Lower-Intermediate)

## Experience

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### **Digital New Agency**

Poland (Remote)

#### **Site Reliability Engineer**

Dec 2024 – Jan 2025

My role has been twofold. I have been part of a client's infrastructure team, a fintech company, managing all of their AWS deployments. This involved doing both development of new solutions, as well as maintenance shifts.

Day-to-day responsibilities involved expanding our Terragrunt templates to allow for more customisation of deployments, ensuring compliance.

I was co-responsible for designing an automation system for quarterly Backup and Restore Testing, cutting down time required to perform them from weeks to a few days.

Outside of the SRE role, I have been involved in an initiative to build ML & LLM based solutions for categorising and improving data during a customer migration process, as well as building tools to automate manual steps in the migration workflow.

### **OpenCredo**

London

#### **Senior Consultant**

May 2023 – Oct 2024

I was part of an engagement involving building an on-premise Internal Developer Platform running on top of Kubernetes.

The primary focus of the engagement was to develop an easy-to-understand layer that would abstract away the complexities of Kubernetes for developers. That meant building a CLI, a YAML schema and workflows that would allow for anything from defining deployment size, scaling, to enabling blue green deployments, ingress rewrites and CDN configuration, secrets management etc.

First part of my work involved expanding the CLI. Apart from the usual in-and-outs of building a CLI, the functionality ranged from retrieval and modifications of secrets, applying policies to verify that deployments match business & technical requirements, to generating deployment templates.

Another major part was focused on expanding a custom Helm chart serving as base of our deployments. Adding configurable blue green or canary deployments,

creating DNS objects, and building automated testing frameworks to perform integration testing on a Kubernetes cluster.

Then I was heavily involved in custom operator development - built an operator for synchronising deployments between multiple independent clusters. Contributed to a DNS record management operator, modified existing open-source controllers to integrate them into the client's existing architecture.

Lastly, a large chunk of my time was spent on building testbeds for integration testing. Since the project relied heavily on multiple pieces working together, we would utilise local (Kind-based) and remote clusters to run test deployments to defend the platform working end-to-end.

## **DisplayLink**

Cambridge/Hybrid

### **DevOps Consultant**

July 2022 – Feb 2023

The contract involved a 6 month project to move a click-ops deployment of an Azure Kubernetes Service cluster onto an IaC, Pulumi-powered one.

Having not worked with Azure before I had to quickly learn the ins-and-outs in order to start off with the project. After a reconnaissance of existing Kubernetes definitions and AKS settings, the next steps required writing those down in Pulumi as well as bootstrapping extra tools to match requirements for visibility & CD: Linkerd & FluxCD.

Thanks to FluxCD some existing Kubernetes definitions could be replaced by Helm charts, and charts could further be utilised to deploy Grafana, Prometheus, Thanos and Jaeger for observability and alerting.

I also replaced existing deployment pipelines to account for the new testing flow - rather than having one static deployment pipeline, tests could be now run whenever a deployment event was triggered by FluxCD.

Finally, I have advised the client on the best way to proceed with scaling up a system using RabbitMQ and investigated the codebase to look for ways to test for idempotency/deduplication before scale out.

## **Onvi**

London

### **Lead DevOps Engineer (Contract assignment)**

Mar 2022 – July 2022

Overhauled DataDog to enhance monitoring: investigated why a custom Ruby logger is leaving the proper tags in logs, cleaned up service names and introduced

tagging for versions, added support for linking logs with traces.

Built Terraform modules to be used for setting up AWS DMS replications. Those were utilised to replicate data for Postgres upgrades, as well as to replicate existing data cross-account into a pre-prod environment.

Added support for PR-environments for Ruby services. Each of those was based off of a shared DB and load balancer, making them very lightweight to deploy requiring a single ECS Fargate container.

Migrated parts of CI onto Github Actions as an effort to simplify choice of technologies (removing CircleCI from our stack).

Dismantled custom, legacy libraries in CI which were used to communicate with AWS. Replaced them with more maintainable direct calls to AWS CLI.

Cooperated with backend and frontend teams to resolve code issues – eg. migrating to new Auth0 libraries to change log-in flows, integrating with Appium, debugging problems with authorisation flows in the iOS app.

## **Toptal**

Remote

### **Lead DevOps Engineer (Client engagement)**

Feb 2021 – Oct 2021

Took up responsibilities as a temporary head of infrastructure to pass the client's infrastructure through compliance & due diligence processes helping secure contracts with major businesses. Thanks to that effort I have been able to help them pass through Google's DD checks for suppliers.

Planned, executed and delivered on time migration of existing single account, non-IaC defined EKS cluster onto a new, multi-account, IaC EKS setup. Simplified the client's existing architecture, and ensured consistency between different environments.

Deployed Prometheus, Grafana, Jaeger, Elastic Search and Kiali to monitor the cluster and collect logs. By utilising header propagation and Istio's generated traces we were able to capture 100% of the traffic for debugging.

Created, implemented and tested a disaster recovery solution in the form of a separate, warm cluster. It allowed for an RPO of 1 day (5 minutes on all DBs apart from one which was hosted by an external provider), RTO of 2 hours.

Set up CloudTrail, and AWS Config to detect & track changes in infrastructure,

discover breaches, and automate compliance.

Used Service Control Policies and IAM policies to limit access to supported regions only, disable unused services in all accounts, and used permission boundaries to prevent privilege escalation.

Set up autoscaling and performed load testing to ensure that the web application can autoscale within minutes to support over 20 thousand concurrent users, tenfold more than expected to be using the application. Analysed code for bottlenecks.

<b>Toptal</b>	Remote
<b>Lead DevOps Engineer (Client engagement)</b>	Sept 2020 – Dec 2020
<b>Vivacity Labs</b>	London
<b>Software Engineer (Contract assignment)</b>	Feb 2020 – June 2020
<b>River Island</b>	London
<b>Site Reliability Engineer (Contract assignment)</b>	July 2019 – Jan 2020
<b>EveryCity</b>	London
<b>AWS Solutions Engineer</b>	Aug 2018 – May 2019
<b>Vivacity Labs</b>	London
<b>Software Engineer</b>	June 2017 – Aug 2018
<b>Imagination Technologies</b>	Kings Langley
<b>Software Design Engineer</b>	Jan 2017 – April 2017
<b>Imagination Technologies</b>	Kings Langley
<b>Graduate System Assurance Engineer</b>	Sept 2015 – Jan 2017
<b>IBM</b>	Kraków
<b>Software Engineer / Contractor</b>	Mar 2013 – Sept 2014