



## Stefan Genov

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**Gender**: Male **Date of birth**: 10/07/1994 **Nationality**: Bulgarian

### WORK EXPERIENCE

[ 01/08/2021 – Current ]

#### PS CoE Member of Technical Staff Level 3

**VMware**

**City**: Plovdiv

**Country**: Bulgaria

Helping businesses realize their software and virtualization needs.

[ 10/07/2016 – 01/08/2021 ]

#### Developer

**Enigma Soft LTD**

**City**: Plovdiv

**Country**: Bulgaria

Full stack PHP Developer with a focus on Backend. Worked with Cassandra, PHP, HTML/CSS, Javascript. We've developed multiple websites ( one project with an API and Front-End part and the purchase system of the company ).

Got promoted to DevOps 2018.

Apart from working as a PHP Fullstack developer I also work as a Devops Engineer. I've used technologies like Bamboo, Chef, AWS. Deployed multiple environments to production.

One of the projects that has been deployed to production was done by using AWS. I've single handedly set-up the entire infrastructure in AWS, configured automatic deployments, builds and testing. I've setup 2 environments, one for production and one for stage. Setup alarms and monitoring as well as logging.

Another project that was deployed to production and stage was using Kubernetes. I've built docker images for all the services in the project, hosting them in ECR. I've setup a Cassandra cluster in the Kubernetes cluster which is all brought up and scaled down if needed automatically without any operator interference needed. I've setup logging (EFK) and monitoring ( Grafana, Prometheus, node-exporter, cAdvisor ). I have successfully configured the services with High Availability and I have configured zero downtime rolling upgrades as well as horizontal pod autoscaling. All of the services deployed have liveness probes, readiness probes, securityContexts preventing any privilege escalations. All of the services have been packaged into private helm charts using S3 as a private Helm Repo.

I have written ansible scripts that setup the entire K8S environment. They are capable of setting up a single master cluster or a multiple stacked master cluster. All of the scripts are super customizable where deemed fit. All of the scripts have a bunch of checks to confirm that everything has been successfully setup, they are fully idempotent and can be run in sections due to tags in case of failure.

[ 12/2015 – 07/2016 ]

#### Full Stack Developer

**Programista**

**City**: Plovdiv

**Country:** Bulgaria

Student internship. I worked as a PHP developer using Laravel as a framework and MySQL as a database. Build a lot of small sites and we had assignments to design different web pages.

## EDUCATION AND TRAINING

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### Taken A Course for CKA

**Udemy** <https://www.udemy.com/course/certified-kubernetes-administrator-with-practice-tests/>

### Understanding TypeScript - 2021 Edition

**Udemy** <https://www.udemy.com/course/understanding-typescript/>

### Jenkins From Zero To Hero

**Udemy** <https://www.udemy.com/course/jenkins-from-zero-to-hero/>

### Certificate of Advanced English ( CAE )

## LANGUAGE SKILLS

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**Mother tongue(s):** Bulgarian

**Other language(s):**

**English**

**LISTENING** C2 **READING** C2 **WRITING** C1

**SPOKEN PRODUCTION** C2 **SPOKEN INTERACTION** C2

## DIGITAL SKILLS

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### Cloud

vRealize Automation | VMware vCenter/vSphere/ESXi | vRealize Orchestrator | Amazon Web Service (AWS) | ESXi | Amazon Lightsail | DigitalOcean | Microservices

### Containers

Docker | Kubernetes

### CI/CD

Jenkins | GitHub, GitHub Actions | FluxCD2 | Teamcity | Bamboo | Stash | GitLab

### Languages

PHP | NodeJS | JS | TS | Go | Java

### Technical skills

Linux | Webpack | Babel | Git | Nginx

### Logging and Monitoring

Prometheus | Grafana | EFK (Elastic search, Fluentd, Kibana) | AWS CloudWatch

### Databases/Cache

Cassandra DB | MongoDB | Redis | Memcached | PostgreSQL

### Frameworks

VueJS3 | Symfony

### Hypervisors

Proxmox

### IaC

Ansible | Chef | Terraform | Build Tools for VMware Aria

## CREATIVE WORKS

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### EventRequest, a backend framework for NodeJS

I have written this framework to use for myself mainly. I've tried to make it as fast as possible and as customizable as it can be. I've been working on this on and off for almost 3 years now.

**Link:** [https://www.npmjs.com/package/event\\_request](https://www.npmjs.com/package/event_request)

### Other creative works

You can checkout all my open source projects on:

**Link:** <https://stefangenov.site/projects#load>

### ServerEmulator

**A simple storage app that emulates the file system. Supports streaming, user management, acls.**

### Written in VueJS3 and EventRequest

<https://www.npmjs.com/package/server-emulator>

### [ Current ] SimpleSecrets

A K8S Operator written in NodeJS responsible for managing secrets.

**Link:** <https://stefangenov.site/projects#SimpleSecrets>

## HOBBIES AND INTERESTS

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### NodeJS

Non professionally I've done numerous Open Source projects with NodeJS as a backend, mostly using my custom framework.

As a front-end framework I've been using VueJS as well as plain old Javascript. I am well familiar with Using TailwindCSS as a CSS framework.

**Link:** <https://stefangenov.site/projects#load>

### Ansible

I have written multiple ansible scripts and am constantly adding more as I need them, mostly targeting Ubuntu-20.04 as an OS.

**Links:** <https://stefangenov.site/projects#Ansible Role docker> | <https://stefangenov.site/projects#Ansible Role helm> | [https://stefangenov.site/projects#Ansible Role kubernetes\\_preflight](https://stefangenov.site/projects#Ansible Role kubernetes_preflight) | [https://stefangenov.site/projects#Ansible Role kubernetes\\_cluster](https://stefangenov.site/projects#Ansible Role kubernetes_cluster) | <https://stefangenov.site/projects#Ansible Role kubernetes master security>

### Kubernetes

I have built solutions in kubernetes spanning different company needs. From logging, monitoring to HA and zero downtime. I will always continue trying to learn more and more about Kubernetes and containerization.

### Jenkins

I have written different pipelines in Jenkins for deployment of mostly personal projects.

These pipelines span the entire CI/CD process or just parts of it depending on my needs.