

KARL-ANDREAS TURVAS

Systems Engineer

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kturvas



RELEVANT EXPERIENCE

Python Developer & Linux Administrator

CERN (European Organization for Nuclear Research)

Feb 2022 – Ongoing Switzerland, Geneva

- Developing a Python library/CLI-tool/server that abstracts an overwhelming number of different CERN services via APIs.
- Automating configuration management, VM/Docker image and RPM package builds.
- Coordinating, migrating to modern development and automation workflows.
- Deploying GitLab Runners and Hashicorp Vault with Kerberos integration on Kubernetes.

DevOps Engineer & Linux Administrator

TalTech High Performance Computing Centre

May 2021 – Jan 2022 Harjumaa, Tallinn

- Automated configuration management with GitLab CI and Ansible to increase sysadmin efficiency and infrastructure reliability.
- Set up and configured Hashicorp Vault for internal credentials and secrets management.
- Provided secure solutions to requirements of current and to-be clients of the HPC Centre.
- Managed InvenioRDM-based containerized data repository on Nginx, Flask, Postgre, Elasticsearch.

Chairman of the Board

TalTech Student Council of the School of IT

May 2021 – May 2022 Harjumaa, Tallinn

- Managed a board of 7 members of the non-profit organisation of nearly 200 members to be voice of IT students.
- Collaborated closely with TalTech, as well as Estonia's largest IT companies and associations alike to enrich the student life by organising educational and entertainment events.

Homelab

Hobby project

Whenever I find time! Home

- Running services on Nomad/Consul container orchestration stack.
- Using Debian based Proxmox distro as the hypervisor on DL380 Gen9.
- Virtual machines provisioned automatically using Terraform and Packer.
- 3D printer automation and internal DNS/DHCP on Raspberry Pis.
- All infrastructure configured by pull-mode Ansible.

SKILLS



Languages

English (CAE C2), Estonian (Native)



Driver license

B, C, D



Programming

Python, C/C++, Bash, Golang, HTML, CSS, PHP, Javascript, Assembly



Hardware

RaspberryPi, Arduino, PC towers, Cortex-M, routers, servers, NASes, 3D printers



Software

Git, GitLab, OpenStack, Ansible, Hashicorp products, Nginx, Docker, Kubernetes, Flask, Node.js, ReactJS, SQL, Kerberos, Zabbix, LaTeX, Blender, Office 365 Suite, Creative Cloud

EDUCATION

Bachelor's in Hardware Development and Programming

Tallinn University of Technology

Sept 2020 – Ongoing

REFERENCES

Contacts available on request

Lauri Anton

TalTech HPC Centre

Andres Eek

TalTech Dean's Office at School of IT

Thomas Oulevey

CERN