

KARL-ANDREAS TURVAS

Systems Engineer

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kturvas



RELEVANT EXPERIENCE

DevOps Engineer & Linux Administrator

TalTech High Performance Computing Centre

Feb 2023 – Present Estonia, Tallinn

- Modernizing Ansible based configuration management for clusters of CPU and GPU computes.
- Managing a internal Proxmox cloud with Packer, Terraform and Ansible.
- Developing GitLab CI solutions for automated testing and builds.
- Managing and improving Zabbix/Syslog/Loki based observability stack.
- Evaluated Harvester/Rancher cloud-native HCI for container, and VM workloads.

Python Developer & Linux Administrator

CERN (European Organization for Nuclear Research)

Feb 2022 – Dec 2022 Switzerland, Geneva

- Developed a Python library/CLI-tool/server that abstracts an overwhelming number of different CERN services via APIs.
- Automated configuration management, VM/Docker image and RPM package builds.
- Deployed GitLab Runners and Hashicorp Vault with Kerberos integration on Kubernetes.

DevOps Engineer & Linux Administrator

TalTech High Performance Computing Centre

May 2021 – Jan 2022 Estonia, Tallinn

- Automated configuration management with GitLab CI and Ansible.
- Set up 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 Estonia, 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 various hardware, services and experiments!

SKILLS



Languages

English (CAE C2), Estonian (Native)



Driver license

B, C, D



Programming

C/C++, Rust, Python, Bash, Go, HTML/CSS, PHP, Javascript, Assembly



Hardware

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



Software

Atlassian, GitLab/GitHub Open-Stack/AWS, Ansible/Salt, HashiCorp stacks, Docker/Podman, Kubernetes/Nomad, Zabbix/Prometheus/Grafana, Blender, LaTeX/Office365, Creative Cloud, StableDiffusion/YOLO

EDUCATION

Bachelor's in Hardware Development and Programming

Tallinn University of Technology

Sept 2020 – Ongoing

REFERENCES

Contacts available on request

Thomas Oulevey

CERN

Lauri Anton

TalTech HPC Centre

Andres Eek

TalTech Dean's Office at School of IT