KARL-ANDREAS TURVAS

Systems Engineer

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RELEVANT EXPERIENCE

DevOps Engineer & Linux Administrator
TalTech High Performance Computing Centre

📅 Feb 2023 – Present   📍 Estonia, Tallinn

- Deploying a cloud on Harvester/Rancher cloud-native HCI for container and VM workloads.
- Modernizing and automating Ansible based configuration management.
- Managing a internal Proxmox cloud with Packer, Terraform and Ansible.
- Developing GitLab CI solutions for automated testing and builds.
- Managing and improving Zabbix and Grafana Loki based observability stack.

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
OpenStack, AWS, **Ansible**, **Hashicorp products**, **Docker**/**Podman**, Kubernetes, Kerberos, **GitLab**, Zabbix, Prometheus, Grafana, 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

Thomas Oulevey
CERN

Lauri Anton
TalTech HPC Centre

Andres Eek
TalTech Dean's Office at School of IT