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Education

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| M.Sc. in Computer Science | Clausthal University of Technology | Oct 2018 — Apr 2021 |
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- **Key Coursework:** Advanced computer networks, cloud computing, high performance computing, high performance computing with C++, network security

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| B.Sc. in Computer Science | Clausthal University of Technology | Oct 2013 — May 2019 |
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- **Key Coursework:** Algorithms and data structures, computer architecture, computer networks, databases, operating systems and distributed systems, software engineering. GPA: 2.6

Work Experience

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| Google Summer of Code | in-toto, CNCF | June 2020 — Sep 2020 |
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- Ported *runlib* functionality from the *in-toto* reference implementation in Python to the *in-toto* implementation in Go by expanding the library with code for signing and generating *in-toto* link metadata.
- Personal highlight: Found a bug in the *crypto/rsa* Go library and submit a PR to Gerrit.

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| Work Student | Aveny, Remote | Apr 2020 — Now |
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- Developed a package manager in Go for deploying static binaries on NextGen Firewalls.

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| Work Student | Clausthal University of Technology | Apr 2014 — Apr 2020 |
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- Automated the TLS keypair deployment to a central firewall for inbound TLS inspection by writing a middleware in Python that pulls TLS keypairs and pushes them via REST-API to the firewall.
- Achieved a relation of LDAP users and IP addresses for writing user/IP specific firewall rules via implementing a REST API as middleware between a proprietary service, Freeradius and OpenVPN
- Reduced toil of writing 2–25 mails daily via writing a software in Python that fetches IPS firewall alerts via REST API and mails them to responsible system administrators in institutes.
- Showed ownership by maintaining a Proxmox VE cluster consisting of 25 physical nodes.
- Wrote a software that helps finding unused or orphaned artifacts in the firewall and therefore reduced the manual task of searching for them
- Evaluated Kubernetes for increasing reliability and introducing micro segmentation via namespace segregation

Overview

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- **Natural Languages** German, English
 - **Programming Languages** Go, Python, Bash, C++
 - **Interests** Site-Reliability Engineering, Devops, Linux, Security

Selected Projects

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- **Arch Linux** Working for Arch Linux as package maintainer and security team member since 2015
 - **Arch Linux Boxes** Automated monthly Vagrant and qcow2 image builds with Ansible and Hashicorp Packer. Reduced the toil of 1 hour per month to manually check for the monthly needed fresh Arch Linux ISO image via writing a Python script for monitoring the ISO image releases.
 - **CIFS-exporter** A SMB/CIFS Prometheus Exporter, that parses */proc/fs/cifs/Stats* and exposes them via an HTTP server for Prometheus.
 - **mnemonic** Diceware alike memorizeable password generator written in Go.
 - **ansible-hcloud-inventory** A dynamic *Ansible* inventory for the *Hetzner Cloud*.