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Education

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

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

Google Summer of Code	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.

Work Student	Aveny, Remote	Apr 2020 — Now
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- Maintained a Kubernetes Cluster in production.
- Developed a customer portal based on the static site generator Hugo that provides blocklists for Forcepoint Firewalls.
- Worked on a package manager for deploying static binaries on Forcepoint Firewalls.

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. The production environment had 4000 students and 1000 employees.
- 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 firewalls.
- 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
 - **Interests** Site Reliability Engineering, Devops, Linux, Security

Selected Projects

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- **Arch Linux** Working on Arch Linux as package maintainer and security team member since 2015
 - **in-toto** Framework to secure the integrity of software supply chains.
 - **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*.