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Education

M.Sc. Computer Science **Technical University Clausthal** **Oct 2018 — Apr 2021**

- **Key Coursework:** Advanced Computer Networks, Cloud Computing, High-Performance Computing, High-Performance Computing with C++, Network Security

B.Sc. Computer Science **Technical University Clausthal** **Oct 2013 — May 2019**

- **Key Coursework:** Algorithms and Datastructures, Computer Architecture, Computer Networks, Databases, Operating Systems and Distributed Systems, Software Engineering

Work Experience

Google Summer of Code **in-toto, CNCF** **June 2020 — Sep 2020**

- 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.

Work Student **Aveny, Remote** **Apr 2020 — Now**

- Developed a package manager in Go for deploying static binaries on NextGen Firewalls.

Work Student **TU Clausthal, Datacenter
(Network Department)** **Apr 2017 — Apr 2020**

- 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.

Work Student **TU Clausthal, Datacenter
(Systems Department)** **Apr 2016 — Apr 2020**

Work Student **TU Clausthal Inst. of Software
Systems Engineering** **Oct 2016 — Sep 2017**

Work Student **TU Clausthal Inst. of
Mathematics** **Apr 2014 — Sep 2017**

Overview

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

Selected Projects

- **Arch Linux** Working for Arch Linux as package maintainer and security team member since 2015
- **Arch Linux Boxes** Building reliable infrastructure for automated monthly Vagrant and qcow2 image builds with Ansible and Hashicorp Packer. This project includes a small python script that reduces the toil of 1 hour per month to manually check for the monthly needed fresh Arch Linux ISO image.
- **cifs-exporter** A SMB/CIFS Prometheus Exporter, that parses /proc/fs/cifs/Stats and exposes them via an HTTP server for Prometheus.