Christian Rebischke

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Work Experience

Site Reliability Engineer — **avency** — **Oct 2020 — Now**

- Established a Post Mortem Culture and SRE principles while being the first SRE in the company.
- Microservice development in Go for various customer facing projects.
- Build a production-ready Kubernetes cluster on-premise with high-available customer facing deployments.
- Has been responsible for monitoring with Prometheus, Loki and Grafana.
- Developed Helm charts for in production Kubernetes clusters.
- Build CI/CD pipelines from scratch with Tekton on Kubernetes.
- Managed internal Terraform and Ansible repositories for deployments on-premise and in the cloud.

Google Summer of Code — **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.

Work Student — **avency** — **Apr 2020 — Oct 2020**

- Developed a customer portal based on the static site generator Hugo that provides blocklists for Forcepoint Firewalls.
- Worked on a package manager in Go for deploying static binaries on Forcepoint Firewalls.

Work Student — **Clausthal University of Technology** — **Apr 2014 — 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. 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.

Education

M.Sc. in Computer Science — **Clausthal University of Technology** — **Oct 2018 — Oct 2021**

- **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**

- **Key Coursework**: Algorithms and data structures, computer architecture, computer networks, databases, operating systems and distributed systems, software engineering. GPA: 2.6

Overview

- **Natural Languages** German, English
- **Programming Languages** Go, Python, Bash

Selected Projects

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