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Clausthal-Zellerfeld 38678  
Germany

# Christian Rebischke

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## Education

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

<b>B.Sc. in Computer Science</b>	<b>Clausthal University of Technology</b>	<b>Oct 2013 — May 2019</b>
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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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<b>Google Summer of Code</b>	<b>CNCF</b>	<b>June 2020 — Sep 2020</b>
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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.

<b>Work Student</b>	<b>Aveny, Remote</b>	<b>Apr 2020 — Now</b>
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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.

<b>Work Student</b>	<b>Clausthal University of Technology</b>	<b>Apr 2014 — Apr 2020</b>
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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 for 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*.