

# Christian Rebischke

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<https://shibumi.dev>

## Work Experience

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<b>Site Reliability Engineer</b>	<b>Aveny GmbH</b>	<b>Oct 2020 — Now</b>
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- Established a Post Mortem Culture and SRE principles as the companies first SRE.
- Contributed to an EV charging platform product that consists of more than 5 microservices written in Go communicating via GraphQL and GRPC.
- Built a CI/CD pipeline with Kaniko and Tekton from scratch for Kubernetes clusters.
- Built a 12 node large production-ready Kubernetes cluster on-premise with high-available customer facing deployments with Terraform. KubeOne and Ansible.
- Has been responsible for monitoring and alerting via MS Teams with Prometheus, Loki and Grafana.
- Developed more than 25 Helm charts for deployments to Kubernetes clusters.

<b>Student</b>	<b>Google Summer of Code / 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 GmbH</b>	<b>Apr 2020 — Oct 2020</b>
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- 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 hardened 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 from more than 300 servers to a central firewall for inbound TLS inspection by writing a middleware in Python.
- 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 in Python.
- Reduced toil of writing 2–25 mails daily via writing a software in Python that fetches IPS firewall alerts and mails them to responsible system administrators in within the organization.
- Showed ownership by maintaining a Proxmox VE cluster consisting of 25 physical nodes.
- Wrote a software that found daily more than 20 orphaned artifacts in firewalls.

## Education

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<b>M.Sc. in Computer Science</b>	<b>Clausthal University of Technology</b>	<b>Oct 2018 — Ongoing</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

## Overview

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

## Selected Projects

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- **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.