



# Cedric Kienzler

Team Lead Kubernetes SRE

## Details

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## Links

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## Languages

### German



### English



## Hobbies

Photography  
Longboarding

## Skills

### Site Reliability Engineering



### Go



### Kubernetes



### Docker



### Linux



### Open Source



### Git



## Profile

Experienced Site Reliability Engineer with a demonstrated history of leading top performing teams and high impact projects on a large scale. Skilled in leading diverse teams, back-end software engineering, Linux, agile project management, Kubernetes, as well as Network-architecture, protocol implementation and security.

## Employment History

### Team Lead Kubernetes SRE, German Edge Cloud

2020 – Present Hamburg, Germany

- Building a strong and diverse Kubernetes SRE Team. Taking over the ownership of an existing managed Kubernetes platform, improving it's reliability, implementing new features, and fostering a culture of mutual trust and respect.
- Establishing a culture of open-source within the Team, contributing improvements back to the open-source Community, establishing brand knowledge even within the community
- Working as a representative of the company with the Cloud Native Computing Foundation as well as the Linux Foundation in order to certify and list our managed Kubernetes platform on the CNCFs Website, as well as working with various other teams within the company with the ultimate goal of becoming a CNCF certified "Kubernetes Certified Service Professional"
- Collaboration with service management and sales teams in order to increase our customers satisfaction by providing targeted and highly effective Kubernetes training
- Close collaboration with our service partner "Kubermatic" including regularly meetings with their CEO, establishing a good collaboration to improve our satisfaction with the Kubermatic products

### Site Reliability Engineer - SharePoint Online, Microsoft

2019 – 2020 Dublin, Ireland

- Re-Designing the project management process using agile project management methods for the SharePoint Online SRE Business Unit, driving a cultural change to implement modern SRE methods
- Reviewing and refining service level indicators and objectives on a regular basis to make sure we meet the 99.99% service level agreement towards our customers
- Migrating the development environment towards state of the art tooling like Git, Azure DevOps, and Jupyter Notebooks
- Improving the service reliability by working closely together with various teams across multiple business units
- Leading the development of multiple internal tools to increase efficiency of on-call engineers, resulting in a improved time to mitigate of incidents and outages
- Planning and hosting of meetups for the Microsoft Ireland Open Source Club, as well as participating in multiple open source projects
- Onboarding a new SRE Team in China to move towards a "follow the sun" schedule by implementing proven SRE processes and delivering high quality training while being partly on site in China
- Working with the Red- and Blue Team on site in Redmond to increase the corporate security

## Software Engineering



## Agile Methodologies



## Jupyter Notebooks



## Python



## C/C++



## Microsoft Azure



## Network Engineering



## Ansible



## Software Engineer, Network Security, Sophos

2017 – 2018    📍 Karlsruhe, Germany

- Worked on the "Synchronized Application Classification Engine" product to substantially improve detection rates compared to competing vendors
- Delivered unit-tests with high branch coverage
- Leading the design phase of a new authentication-, authorization-, and accounting-service using a microservice-based approach to increase the scalability and maintainability of the code
- Leading the design and development of a new single sign on service on the firewall to apply user based policies on chrome books without the need of captive portals
- Replacing the IPsec library used on the firewall appliance in order to support IPsec IKEv2, contributed improvements back to the open source community
- Extending and improved the integration test suite for our Firewall product leading to faster release cycles

## Software Engineer - EDI Process Integration, MARKANT Handels- und Service GmbH

2015 – 2016    📍 Offenburg, Germany

- Extended, maintained, and created new real time file conversions to convert complex message types for B2B communication
- Lead a project to modernize the departments development infrastructure, including a migration from CVS to Git, a major version upgrade for the IDE, and the establishment of a continuous integration pipeline
- Evaluated various unit testing frameworks and refactored legacy code to enable unit testing in the existing product code
- Wrote software to support operation teams and implemented real-time monitoring to improve response times during incidents in a time-critical trading system
- Trained apprentices in the company on topics of software architecture, clean code, and common design patterns, enabling them to work on larger projects

## Junior Software Engineer - Apprenticeship, Streit Datentechnik GmbH

2012 – 2015    📍 Haslach im Kinzigtal, Germany

- Learned MS Visual C++, C# .NET, MS T-SQL, MFC and the Win32-API, broadening my problem solving capabilities across a wide range of technologies
- Extended existing UI controls to match modern UI standards
- Designed and implemented new UI controls for enhanced customer experience with the software
- Designed and implemented monitoring services, improving reliability of the company's network and build infrastructure
- Wrote a disassembler to read dependencies from Windows-PE and C# executables

## Education

### Gewerblich-Technische Schulen Offenburg, Apprenticeship as Software Engineer

Sep 2012 – Jul 2015    📍 Offenburg im Kinzigtal, Germany

- Software engineering with Java, database development with SQL
- Server administration with Microsoft Windows Server 2012 R2
- Network planning using classless IP assignment and basic routing principles using the Cisco CCNA training course
- Backup strategies/planning
- Cryptography basics

## Extra-curricular activities

### Head of Network Operations - GPN18/19, Entropia e. V. - CCC Karlsruhe

2018 – 2019    📍 Karlsruhe, Germany

- Ran the AS13020 Network for one of the largest hacking events in Germany after the Chaos Communication Congress
- Lead a Team of 15 volunteers with various skills and levels to build and run the network infrastructure
- Worked closely together with the events project management, as well as various other teams to ensure all of their requirements are fulfilled
- Planned and controlled the budget
- Acquired sponsors for network hardware and BGP interconnectivity
- Wrote automation for heterogenous infrastructure to distribute the network in 5 lecture halls, two big hackcenters and the "OpenCodes" Art exhibition
- Created extensive documentation during all stages of the project to ensure a reliable network
- Worked together with 3rd party service providers to provide fiber connectivity to the venue
- Troubleshooted production infrastructure during the event to ensure maximal reliability for all our attendees and internal customers
- Handeled abuse reports during the event
- Monitored the whole network infrastructure using Prometheus and Grafana

### Member of the Board, Open Infrastructure e. V.

2020 – Present

- Representing the Open Infrastructure (e. V.) as a founding member

## Projects

### BIO Routing

2018 – Present

bio routing is a project to create a versatile, fast, and reliable routing daemon in GoLang

[github.com/bio-routing](https://github.com/bio-routing)

### Open Infrastructure e. V.

2020 – Present

Open Infrastructure is a non profit initiative to build free Infrastructure and services. The project was founded during the COVID-19 crisis to provide online services for video conferences (jitsi) and e-learning (BigBlueButton).

[open-infrastructure.de](https://open-infrastructure.de)