

# Tino Rusch

SENIOR SOFTWARE ENGINEER

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*"If we want, we can fully decentralise it."*

## Skills

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|--------------------|---|
| <b>Programming</b> | Rust, Typescript, Solidity, Go, C/C++, NodeJS, Python, Shell and more   |
| <b>Web3</b>        | Substrate based chain development, Solidity contracts, implementation of dApps and hybrid apps  |
| <b>Classics</b>    | High performance servers, server side rendering, fat-client apps, REST and web-gRPC APIs, react and typescript, distributed cloud-native applications |
| <b>Languages</b>   | English (business fluent), German (native)  |

## Experience

### Botlabs GmbH

SENIOR SOFTWARE ENGINEER

Berlin, Germany

Jan. 2022 - Jan. 2024

- Worked on developing the KILT Blockchain (a polkadot parachain) and supporting infrastructure.
- Responsible for chain maintenance of the substrate based node code and developing fullstack solutions on top of the chain.
- API design and communications with the frontend teams.
- Giving talks and workshops at conferences.
- Techstack: rust, substrate, typescript, react, docker, kubernetes, postgresql

### Contiamo GmbH

SENIOR SOFTWARE ENGINEER

Berlin, Germany

Dec. 2017 - Nov. 2021

- Worked on a multi-tenant data catalog cloud platform.
- Responsible for backend architecture of all components that supported the core functionality.
- Lead engineer for resource management and search.
- API design and communications with the frontend teams.
- Techstack: golang, postgresql, docker, kubernetes, redis, gRPC, typescript, react

### WebVariants GmbH

SOFTWARE ENGINEER & ARCHITECT

Magdeburg, Germany

Nov. 2013 - Dec. 2017

- Worked on various projects for clients
- Kraftwerke, a decentralized energy storage and management platform where I designed and implemented a container based firmware for the smart energy meter
- Lead architect and developer of SUSI, a c++ based extended event system targeting distributed embedded systems.
- Frontend for commscope's ION-U distributed antenna system
- VisuReal cloud platform for optics

### Otto-von-Guericke University

SCIENTIFIC ASSISTANT

Magdeburg, Germany

Dec. 2011 - Okt. 2013

- Implemented and simplified algorithms from unpublished papers.
- Evaluated runtime characteristics and provided samples.
- Worked on a framework for faster algorithm evaluation.

## Education

### Otto-von-Guericke University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Magdeburg, Germany

2009 - 2013

- Bachelor thesis on secure communications in decentralized networks
- Focus on security and engineering

## Achievements and Open Source

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### Rareships DAO

TECHNICAL LEAD

zkSync Era

Jan. 2023 - today

- Wrote and deployed the initial contracts for the Rareships DAO on exosama network.
- Successfully performed a migration of the DAO to zkSync Era
- A lot of fun and over 800 people are part of the DAOs community.
- <https://rareships.games>

### snake-os

a bootable x86 snake game in rust

AUTHOR

Dec. 2021

- Wrote a bootable x86 operating system that allows you to play snake.
- The project is written in rust and heavily relies on crates and docs from the osdev community.
- So far the project collected 330 stars on github.

### host-device plugin

CNI (container network interfaces)

AUTHOR

May - Sep. 2017

- Wrote the host-device CNI plugin that can move any host network device into the network namespace of a container.
- Initial use-case was to access a CAN-Bus from within a rkt container but now its used to support all kinds of otherwise unsupported network devices within k8s.
- The plugin is deployed on every kubernetes node worldwide

### SUSI was finalist for the embedded award

Embedded World Conference,  
Nürnberg, Germany

AUTHOR

2016

- SUSI was nominated and made it to final round for the embedded award.
- SUSI is a c++ based extended event system targeting distributed embedded systems.

## Presentation

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### DOTBrno

Brno, Czech Republic

PRESENTER FOR KILT PROTOCOL

Nov. 10-11th 2022

- Gave a talk on the basics of identity management and the idea of DIDs and Verifiable Credentials.
- Link: [https://www.youtube.com/watch?v=t\\_ih05YkbYs](https://www.youtube.com/watch?v=t_ih05YkbYs)

### Parisdotcomm

Paris, France - Arab World Institute

WORKSHOP PRESENTER FOR KILT PROTOCOL

Jul. 18-20th 2022

- Gave a workshop on how to create and verify a KILT based verifiable credential in rust.