



FIONA BEHRENS

Software Developer

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TECH STACK

Rust C/C++ Nix Go

Elixir Bash Java

Linux NixOS systemd

git PostgreSQL

wireguard RTOS

Zephyr KiCad

LANGUAGES

German: **Native**

English: **Advanced / C1**

ABOUT ME

I'm a passionate software developer with a strong background in system-level programming and a knack for solving complex technical challenges. My journey in the world of technology has led me to work on diverse projects, from developing ad-hoc communication protocols to contributing to the Linux kernel in Rust where I helped adding rust support.

My curiosity drives me to explore new technologies and tools continuously. I thrive in dynamic and collaborative environments, where I can leverage my skills in Linux administration, network engineering, and software development to create innovative solutions.

I also enjoy sailing, which has provided me with valuable life lessons in patience, communication, and adaptability. As a sailing instructor, I've had the opportunity to share my knowledge and foster a love for the sport in others.

EXPERIENCE

Working Student | [secunet AG](#)

Dec. 2023 - now

Bonn, Germany

- Developing netboot installer (NixOS based) including hardware checks and reporting.
- Developing of appliance network router using NixOS and rust
- Developing Hardware/LED linux kernel drivers in C
- Developing rust abstractions for linux kernel subsystems for LED drivers

Software Developer | [nyantec GmbH](#)

Mar. 2020 - Oct. 2023

Berlin, Germany

- Development and testing of mobile ad-hoc protocol for train-wayside communication in cooperation with Siemens Mobility, Braunschweig
- Reliable and automated deployment of development infrastructure using the Nix package manager and the NixOS operation system
- Developing an interface between an userspace service and the linux kernel for the administration of wireless networks
- Developing linux kernel drivers
- Implementing a network protocol

Network Engineer | [YoungGeneration Computerservice eSG](#)

Sep. 2018 - Jul. 2021

Leverkusen, Germany

- Managed a WiFi solution using OpenWRT and batman-adv
- Rebuild the networking backbone using NixOS

EDUCATION

University (Bachelor) | [Bergische Universitaet Wuppertal](#)

📅 since 2021

📍 Wuppertal, Germany

- Computer Science
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Abitur (A-Level) | [Landrat-Lucas Gymnasium](#)

📅 2018 – 2021

📍 Leverkusen, Germany

- Cambridge Assessment Certificate in Advanced English (C1)
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PROJECTS

Rust-for-linux kernel development | [GitHub](#) | [Website](#)

📅 since 2020

- Experimental dummy network driver
 - Kangrejos 2021, 2022, 2023, 2024
 - PoC LED driver for Lenovo ThinkEdge SE10 in rust and abstractions for required subsystems
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Pusher backend development | [GitHub](#)

📅 2021

- ExNeuland backend for Workadventure used at the rc3
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NixOS steering committee | [GitHub](#)

📅 2021 – 2022