# Jonas Fassbender

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## Synopsis

Software Engineer with a background in Data Science and Machine Learning, focused on predicting with certainty. Well versed in parallel and distributed computing techniques and patterns. Into cloud computing from a DevOps perspective (making ops as simple as possible so developers like myself can focus on creating better software).

## Professional Experience

**Jan 2020 – now: Self-employed Software Engineer.** Main projects are:

- carpolice.de: API-first microservice based app. Sole maintainer of ??? LoC
- Spoho
- CP project german bank

**Aug 2018 – Jul 2019: Working Student, RLE International.** In a team with other students, tried finding ways for RLE International to adopt Machine Learning as an emerging technology and create ML-powered products and solutions for its customers.

**Jul 2015 – Aug 2016: Small Business System Administrator, Lieb EDV Beratung.** Set up and maintained backup systems and performed general administration tasks on Windows servers and domains for several small businesses. Established new office locations for customers including the setup of hardware, phones and printers and the local network. Fixed broken hardware and virus infected computers. Helped securing networks against ransomware attacks.

## Open Source Contributions

**Maintainer of various small utility crates part of the Rust ecosystem:** Libraries containing solutions to abstractable problems applicable in other contexts than my own projects. Mostly concerned with (i) meta-programming based abstractions (procedural and declarative macros), (ii) (de)serialization, (iii) the actix-web framework and (iv) solving utility tasks such as parsing an environment file or logging requests across multiple services. 15k downloads.

**Flutter:** Contributed to the `PaginatedDataTable` widget from Flutter's Material Design library

**SpiNNaker:** Contributed bug fixes and API enhancements to the Graph and Common Python Frontends of the SpiNNaker software stack

## Education

**Sep 2019 - Sep 2020: MSc High Performance Computing with Data Science, University of Edinburgh.** Thesis: Deep Learning on SpiNNaker

**Oct 2016 - Aug 2019: BSc Computer Science, Technical University of Cologne.** Thesis: Approximating the Optimal Threshold for an Abstaining Classifier based on a Reward Function with Regression

## Technologies

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| Programming languages | Rust, Dart, Python, JavaScript, Julia, Bash, C, Go, Fortran |
| Cloud Computing | Kubernetes, Docker, Google Cloud Platform, Elastic Cloud on Kubernetes, ROOK/Ceph, Firebase |
| Distributed and parallel programming | MPI, OpenMP, POSIX Threads, RabbitMQ, Apache Kafka, tokio-rs, rayon-rs |
| Others | Flutter, HTML+CSS, OpenID Connect, Keycloak, Git, Node.js, LaTeX, OpenSUSE/Linux, SQL |