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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 app with a web client written in Flutter. Sole maintainer of 70k+ 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

Programming languages	Rust, Dart, Python, JavaScript, Julia, Bash, C, Go, Fortran
Cloud Computing	Kubernetes, Docker, Google Cloud Platform, Elastic Cloud on Kubernetes, ROO-K/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