

● Franz Neubert

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I'm a software engineer especially interested in data heavy, high performance systems. Domain expertise is an aspect I love to invest time in. I also consider knowledge transfer and lean processes important for building reliable, maintainable software.

Work Experience

SOFTWARE ENGINEER OTTO, HAMBURG – 01/2019 - PRESENT

- Developing, maintaining and operating a streaming data pipeline. The pipeline consists of roughly 20 micro services built on top of Apache Kafka.
- Designing and implementing a strategy for horizontally scaling one of our most expensive services. This reduced the operating cost by more than 40%.
- Implementing batching of client-side tracking requests. The rollout was accompanied by an A/B test. It verified increased sales and reduced loading times while decreasing costs on our backend.
- Solidifying our process for handling technical debt. Resulting in regular prioritisation and commitment to high impact technical improvements.

SOFTWARE ENGINEER (FRONTEND) UBILABS, HAMBURG – 04/2016 - 12/2018

- Developing B2B apps using frontend technologies. Most apps revolved around web maps and data visualisation.
- Technical responsibility and ongoing development of a WebGL based library for visualising weather data on maps. The library is an integral part of major weather forecasting providers app portfolio.
- Nomination and winning of multiple Webby Awards for Google Earth's relaunch. I helped design and implement the content pipeline for the platform. Program managers can now easily create most stories from spreadsheets. I also contributed key technical features for the relaunch of the product in South America.

SOFTWARE ENGINEER (WORKING STUDENT) AUDIMAX MEDIEN, NUREMBERG – 11/2014 - 03/2016

- I've implemented a web version of the companies popular university canteen plan app.
- I've maintained the app across all platforms, including iOS and Android.

RESEARCH ASSISTANT (WORKING STUDENT) FRAUNHOFER IIS, NUREMBERG – 12/2012 - 08/2014

- Working on a self-contained positioning technology based on field strength measurements: Indoor positioning and navigation based on wifi.

Education

B.Sc. Computer Science and Media – Technische Hochschule Nuremberg (2012 - 2016)

Technologies and Languages

LANGUAGES

Scala, JavaScript/TypeScript, Python, Java

TECHNOLOGIES

- Kafka, Akka, MongoDB, Docker, React
- AWS, especially EC2, S3, Lambda, CloudWatch, CloudFormation and DynamoDB

OTHER

GIS/Mapping (Google Maps, Mapbox), BCC (eBPF)

CERTIFICATION

Google Cloud Certified Professional Data Engineer (APR 2018)

Projects

- Technical Blog: <https://franz.hamburg/writing.html>
- Public Transit Live Map (Hamburg): <https://hvv.live>
- Kafka meet-up talk (2020): https://franz.hamburg/assets/misc/kafka-meetup_2020.pdf
- FOSS4G conference talk (2017): <https://franz.hamburg/assets/misc/foss4g.pdf>

Interests

- I'm into sourdough baking. I've baked about two loafs per week for two years now.
- Home cooking is another big part of me. I cook everyday, from simple dishes like pizza, to more involved ones like shengjian (Chinese buns).