

# DAVID KRENTZLIN

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## PROFESSIONAL SUMMARY

I'm a software engineer with management experience and I thrive in environments which require technical expertise as well as good communication and leadership.

In my roughly 18 years as a software engineer I have worked on multiple high traffic, distributed services in all stages of their life-cycles, in multiple domains, and helped to scale them operationally and organisationally.

I care about good culture and try to increase my understanding of the environments, teams, systems, values and practices that enable organisations to sustain in an industry, that is fast-paced and requires constant feedback and learning.

## SKILLS

self driven learning	very good
communication with groups and individuals	very good
coaching, management and leadership	good
agile software delivery	good
software design / software architecture	good
Scala, Rust, Ruby, Haskell	good
GraphQL, APIs, Distributed Services	good
Compilers / Programming Languages	familiar
Scheme, Elixir, Redis, MySQL, PostgreSQL	familiar

## LANGUAGES

German	native
English	fluent
Icelandic	novice

## WORK EXPERIENCE

**Team Lead Architecture**      **New Work SE**      **Mar 2020 - Today**

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### API Infrastructure Team

I lead a team of six software architects & software engineers in a newly created solution architecture area. As a platform team we build and operate the central GraphQL API, which is used by 200+ engineers to build their products faster and more robust. As a former individual contributor in the team I took on the leadership position and helped my engineers to be self-sustained, autonomous and achieve the team's objectives.

- build the newly established team and foster good collaboration, team ownership and consistent delivery
- help to establish data driven software delivery - and continuous improvement processes for consulting and platform projects
- drive architectural decisions and give architectural guidance for the engineering organisation
- enable my direct reports and support them in achieving their objectives and growing them in their functions
- facilitate decision making, group learning and continuous improvement to help the team take ownership of their platform

#### **leveraged knowledge**

leadership, management, communication, agile methods, coaching, project management

**Senior Software Engineer**      **New Work SE**      **Dec 2015 - Mar 2020**

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### XING One - GraphQL Gateway (2017 - 2020)

I was part of the core platform team that planned, designed, developed and rolled the central GraphQL Gateway which is called XING One. I accompanied the service through the early project phase, when it was scaled to the whole organisation and when it reached maturity. The platform is now used by 200+ product engineers, to build their products in a largely autonomous way.

- improved data handling for mobile and web clients by providing a faster, safer and more robust way to fetch data using GraphQL
- planned and played integral role in the development of bigger parts fo the GraphQL service like file uploads, caching and logged-out support

- increased availability, resilience and performance of the GraphQL service through systematic measurement, profiling, monitoring and implementation of the required changes
- built fast, secure, resilient and reliable HTTP level service to service communication
- created and carried out workshops to train engineers in GraphQL and Scala
- Provided architectural guidance and support for product teams to learn how to leverage GraphQL the best for their domains

#### **leveraged knowledge**

Scala, Ruby, GraphQL, Distributed Systems, RESTful APIs, AMQP, MySQL, HTTP, Network, Concurrency

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### **XING Messenger End-to-End Encryption (2016 - 2017)**

- planned, designed and documented the integration of a Double-Ratchet Protocol for the XING messenger together with external crypto experts
- designed and developed the backend integration to bring End-To-End Encryption to the XING Messenger
- coordinated work of mobile engineers, backend engineers and external experts to bring the required encryption knowledge into the team and enable the delivery of End-To-End Encryption

#### **leveraged knowledge**

Ruby, AMQP, Cryptography, MySQL, Network protocols

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### **XING Messenger (2015 - 2016)**

- introduced highly available, resilient and performant real-time update channel for the XING messenger
- designed and implemented new RESTful APIs to enable new features on the XING messenger
- developed load testing component to verify and measure the real time update channel of the XING messenger and conducted performance / load testing
- improved the quality of the code base by driving and supporting a software design shift that provided a better basis for the development of features

#### **leveraged knowledge**

Ruby, Ruby on Rails, Elixir, Phoenix AMQP, Cryptography, MySQL and network programming

**Senior Software Developer    OMCnet Internet Service GmbH    2007 - Nov 2015**

- introduced more reliable and capable version of E-Mail policy service to enforce policies on the MTA
- automated operations workflows and developed solutions to manage a fleet of dedicated and shared servers
- designed, planned, set up and operated high-available solutions for storage and web services
- developed web based management interfaces for the dedicated and shared hosting environment
- introduced continuous integration pipeline to speed the delivery features for the internal products
- designed, setup and implement configuration as code with puppet

## leveraged knowledge

Ruby, C/C++, Perl, Scheme, PostgresQL, MySQL, network protocols, operations

<b>Software Developer</b>	<b>Claxx.net</b>	<b>2005 - 2007</b>
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- built a fully automated layout engine to generate parts of a magazine with sport-statistical data, which eliminated the need for a lengthy manual layout process
- developed web based Interface for external customers to leverage in-house sports data
- automate workflows in the production of a sports magazine

## leveraged knowledge

Ruby, PHP, C/C++, Scheme, MSSQL, SXML, Quark

## EDUCATION

**Fernuniversität Hagen**                      **Computer Science**                      **2003 - 2006**

## HOBBIES AND INTERESTS

- programming language theory
- callisthenics
- music / guitar