

Jan Fornoff | Curriculum Vitae

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Education

MSc Business Information Systems

TU Darmstadt, Average grade 1.42

2016–2018

Master Thesis: “Evaluating Quality of Experience in Multipath TCP Applications on iOS Mobile Devices” (Graded 1.0)

- o Development of iOS application capable of running web applications over MPTCP
- o Design of network testbed allowing per-path network emulation and using real applications from the Internet
- o Conducting a user study while collecting extensive metrics and statistics for analysis

BSc Business Information Systems

TU Darmstadt, Average grade 2.27

2011–2016

Bachelor Thesis: “Optimization and Evaluation of MPEG DASH Video Streaming by large-scale Network Simulation” (Graded 1.0 & nominated for the Datenlotsen award for outstanding theses)

High school graduation (Abitur)

Berufliches Gymnasium Groß-Gerau, Average grade 1.5

2007–2010

Focused on Information Systems / Electrical Engineering, Intensive course: Maths

Scientific publications

Quality of Experience Measurements of Multipath TCP applications on iOS Mobile Devices

Katharina Keller, Patrick Felka, Jan Fornoff et al., ACM Multimedia Systems Conference (MMSys'20)

QoE Analysis of DASH Cross-Layer Dependencies by Extensive Network Emulation

Denny Stohr, Alexander Frömmgen, Jan Fornoff et al., ACM SIGCOMM 2016 (Workshop)

Capture and Replay: Reproducible Network Experiments in Mininet

Alexander Frömmgen, Denny Stohr, Jan Fornoff et al., ACM SIGCOMM 2016 (Poster)

Experience

Google

Senior Software Engineer

Zurich

Apr. 2022–present

Google

Software Engineer

Zurich

Apr. 2021–Apr. 2022

Google

Software Engineer – Site Reliability Engineering

Zurich

Sep. 2019–Apr. 2021

- o Oncall and incident response for critical services
- o Reviewing, creating and implementing designs for resilient systems
- o Establishing and tracking SLIs / SLOs based on business goals
- o Interviewing and mentoring new Googlers

Grandcentrix GmbH

Backend Systems Engineer (Remote)

Cologne

Oct. 2018–Sep. 2019

- o Elixir application development (OTP, Phoenix framework)
- o Extensive use of CQRS / Event Sourcing paradigms
- o Taking part in software architectural discussions
- o Load testing, profiling and fixing performance bottlenecks
- o Diagnosing and troubleshooting failures on live Kubernetes deployment
- o Participating in internal expert communities to advance engineering practices

Consultant

Freelance

- o Mentoring startup founders and engineers
- o Supporting system design decisions and operational concepts

Grandcentrix GmbH

Working student Backend Development (Remote)

Software AG

Working student

Development of internal web applications

- o Development of web applications for management of contracts
- o Automation of Non-Disclosure Agreement generation
- o Development of web application for creating dynamically configurable questionnaires
- o Integration with internal data and authentication APIs
- o Conception of a Docker-based deployment and application operation platform
- o Linux system administration, deployment automation & monitoring

Darmstadt / Frankfurt

Jan. 2019–Sep. 2019

Cologne

Sep. 2017–Oct. 2018

Eberstadt

Aug. 2011–Sep. 2017

Projects

University projects.....

Course project “IT project management”

Invensity GmbH (Wiesbaden)

Development of single-page application to collect customer feedback (AngularJS 1.x - Frontend, Laravel - Backend)

Course project “Creating Value through Data Science”

Accenture Digital

Analytics challenge with the goal of getting insights into the profession of Data Scientists.

- o Business case definition
- o Data preparation for analysis
- o Statistical data analysis and modeling
- o Development of prediction model
- o Data visualization
- o Presentation of results in front of experts from science and practice

Personal side-projects.....

Chatbot for asynchronous stand-up meetings

Meetup-Slides

Development of Chatbot based on “Slack”, who conducts asynchronous stand-up meetings at user-defined times by direct message and posts the formatted results into a status chat room. (Elixir / OTP)

Chefkoch-Shopping

Experimental project to grasp Node.JS principles.

Captures a Chefkoch (cooking recipe site) recipe, crawls it for ingredients and allows adding them to a shopping list.

- o OAuth & REST API integration with Wunderlist
- o Crawling of recipe site for ingredients
- o Docker-based deployment
- o Express.JS on top of Node.JS

More at <https://blog.janfornoff.com/projects>

Languages

English: fluent (spoken and written)

German: Mother tongue level

Technical skills

Programming languages.....

Advanced level:

- C++
- Java
- Python
- Elixir
- Elm
- Ruby
- HTML / JavaScript

Basics:

- Rust
- Go
- Scala
- Assembler
- Haskell
- R

Technologies.....

Tools:

- Git / Mercurial
- Docker
- Kubernetes
- Rancher
- Gitlab CI

Frameworks:

- Phoenix (Elixir)
- Ruby on Rails
- node.js / Express
- Laravel

Storage:

- PostgreSQL
- MySQL
- Redis
- Memcached
- RabbitMQ

Protocols:

- HTTP-based adaptive bitrate video streaming (MPEG-DASH / HLS)
- Network protocols (HTTP, TCP/IP, Multipath TCP)

Technical areas of interest

- Web Technologies & Future Internet
- System performance optimization (across abstraction boundaries)
- Systems engineering & SRE
- Big Data, Data Mining & Statistical Analysis

Hobbys

- Sports
 - Brazilian Jiu Jitsu
 - Cycling
 - Strength training
- Cooking
- Traveling and hiking