

Jan Fornoff | Curriculum Vitae

Amselweg 66 – 64295 Darmstadt

☎ +49 163 4684860 • ✉ janfornoff@gmail.com • 🌐 blog.janfornoff.com
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Education

MSc Business Information Systems

TU Darmstadt, Average grade 1.44

2016–2018

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

- Development of iOS application capable of running web applications over MPTCP
- Design of network testbed allowing per-path network emulation and using real application from the Internet
- 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

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

Grandcentrix GmbH

Backend Systems Engineer (Remote)

Cologne

Oct. 2018–present

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

Grandcentrix GmbH

Working student Backend Development (Remote)

Cologne

Sep. 2017–Oct. 2018

Software AG

Working student

Eberstadt

Oct. 2011–Sep. 2017

Development of internal web applications

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

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

Languages

English: fluent (spoken and written)

German: Mother tongue level

Technical skills

Programming languages.....

Advanced level:

- o Elixir
- o Elm
- o Ruby
- o HTML / JavaScript

Basics:

- o Python
- o Go
- o Java
- o Scala
- o C(++)
- o Assembler
- o Rust
- o Haskell
- o R

Technologies.....

Tools:

- Git
- Docker
- Kubernetes
- Rancher
- Gitlab CI

Storage:

- PostgreSQL
- MySQL
- Redis
- RabbitMQ

Frameworks:

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

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)
- Agile & Test-Driven Development
- Systems engineering & SRE
- Big Data, Data Mining & Statistical Analysis

Hobbys

- Sports
 - Handball
 - Strength training
- Cooking
- Traveling and hiking