Daniel Kirsch

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y @kirel

Mathematician, Web. Data, Visualization.

Machine "dompteur" with a math diploma from University of Münster and a background in **pattern recognition** and **machine learning**. Creator of **detexify**. I am excited about data products - from the ML up to the UX. I speak many programming languages - preferrably functional ones.

EDUCATION

10/2003 - 11/2010

University of Münster

Diploma in Mathematics / Computer Science Ø 1.5

Thesis (1.3): »Detexify: Recognition of hand-drawn LaTeX symbols« implemented as a RESTful webservice written in Haskell and Ruby using machine learning techniques. Samples are stored in CouchDB. See http://detexify.kirelabs.org.

1993 - 2002

Gymnasium Laurentianum Warendorf

Abitur Ø 2.0

② EXPERIENCE

Freelancer

4/2015 - today

smartB

Energy Management GmbH

8/2014 - 3/2015

Hitfox Group

Incubator building companies and careers

6/2014 - 7/2014

Zweitag GmbH

Ruby on Rails Consultancy

8/2009 - 5/2014

Mathematician

Data Analysis, Optimization, Machine Learning, Data Visualization, available for hire.

Data Analyst & Visualization Expert

- Translation of **business requirements** into suitable technical solutions
- Leading frontend development (Project Management, Node, D3, Angular) and building APIs and the data pipeline (Python, Pandas) for our smart meters and NILM results
- Drafting and implementing a DevOps process and best practices with Ansible

Data Scientist

- Prototyped a Big Data architecture in a Telco context
- Supported a new FinTech venture by prototyping the backend architecture and implementing the MVP with Rails

Software Developer

I was involved in a variety of projects ranging from ecommerce sites and auction systems to business intelligence tools. I worked on the **Rails** backend as well as with frontend technologies such as **Haml**, **SASS**, client-side **Javascript**-frameworks and **D3.js** for data visualization.

Responsibilities & Achievements

- Helped establish TDD/BDD as a company best-practice (Rspec, Capybara, Jasmine)
- Introduced **Angular.js** as a core technology in Zweitag's projects
- (Co-)authored the software QA-process (code review)

Worked on the medical imaging engine Voreen in C++ and OpenGL

- (Co-)authored and coordinated the corporate **mentorship** program
- Evaluated prospective interns and student workers and (co-)authored best-practices regarding the hiring process
- (Co-)authored training materials for interns and new hires

Visualization and Computer Graphics Research Group

of the University of Münster

10/2008 - 3/2009

Databases and Information Systems Group

of the University of Münster

11/2008 - 3/2009

Institute of Mathematical

Statistics of the University of Münster

of the University of Munst

Student worker: Project Learnr

Built a RESTful webservice for managing assets for an E-Learning platform using Ruby on Rails.

Tutor in stochastics / probability theory

Tutorials and correction of student homework.

Student worker: Voreen Volume Rendering Engine

10/2007 - 10/2008

VOLUNTARY EXPERIENCE

DSSG Berlin

in Founder

We are in the process of founding a new organziation promoting data science for social good. See

http://dssg-berlin.github.io/ for more details.

Open Knowledge Lab Münster

Code for Germany 2/2014 - 12/2014

r Lab Lead

in a local community revolving around **civic tech** and **open data**. See **http://codefor.de/muenster** for more details.

Responsibilities

• Organize local meetups

• Stay in touch with local government and journalists

• Guide the participants towards common goals

Monster on Rails Speaker

at the local Rails user group with talks on

• Angular.js

Functional Javascript

Open SourceOccasional contributor
See http://github.com/kirel

LG Brillux Münster Track&Field Manager Young Athletics (Sportwart Nachwuchs)

10/2011 - 5/2014 **Responsibilities**

Organisation and supervision of track&field competitions

Creation and implementation of young athletics nurturing programs

• Uniting coaches of the LG by shaping the mutual vision

TuS Hiltrup 1930 e.V. Track&field coach

8/2006 - 5/2014 Coaching young athletes between ages 12 to 19 especially in vertical jumps and pole vault. Earned

several qualifications and final places in the German youth nationals.

FLVW Track&field coaching license (C-Lizenz)

8/2006

Heinrich-Tellen-Schule

in Warendorf

8/2002 - 6/2003

Community Service

at a school for special education.

A INTERESTS

- Data Science for Social Good
- Data visualization
- Machine learning
- FP (Haskell, Clojure, R, Elixir, ...)
- Open data / data-driven journalism

See http://kirelabs.org for personal projects.

- Behavioral Science
- Lean startup-methods
- Reading technical books
- Longboarding, wakeboarding, kitesurfing
- Pole vaulting

REFERENCES

Dr. Marco Blumendorf, CTO at smartB (marco.blumendorf@smartb.eu)

was my superviser at SmartB.

Peter Großkopf, CDO at Hitfox (peter.grosskopf@hitfoxgroup.com)

was my superviser at Hitfox.

Julian Schneider, CEO and Founder at Zweitag GmbH (julian.schneider@zweitag.de)

was my boss at Zweitag GmbH.

Prof. Dr. Xiaoyi Jiang (http://cvpr.uni-muenster.de/organisation/jiang.html)

supervised my diploma thesis at University of Münster