Daniel Kirsch

Mathematician. Web. Data. Visualization.

🌐 http://danielkirs.ch
✉ mail@danielkirs.ch
📱 +49 1511 5729370
🐦 @kirel

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 ∅ 1.5
Thesis (1.3): **»Detexify: Recognition of hand-drawn LaTeX symbols«** implemented as a **REST**ful 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 ∅ 2.0

🕐 EXPERIENCE

smartB
Energy Management GmbH

8/2014 – 3/2015

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**

Hitfox Group
Incubator building companies and careers

6/2014 – 7/2014

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**

Zweitag GmbH
Ruby on Rails Consultancy

8/2009 – 5/2014

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**)
- (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

Student worker: Voreen Volume Rendering Engine
Worked on the medical imaging engine Voreen in **C++** and **OpenGL**.

Databases and Information Systems Group
of the University of Münster

11/2008 - 3/2009

Student worker: Project Learnr
Built a **REST**ful webservice for managing assets for an E-Learning platform using **Ruby on Rails**.

Institute of Mathematical Statistics
of the University of Münster

10/2007 - 10/2008

Tutor in stochastics / probability theory
Tutorials and correction of student homework.

👥 VOLUNTARY EXPERIENCE

DSSG Berlin

12/2014 - present

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

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 Source

Occasional contributor
See http://github.com/kirel.

LG Brillux Münster

10/2011 - 5/2014

Track&Field Manager Young Athletics (Sportwart Nachwuchs)

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.

8/2006 - 5/2014

Track&field coach
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

8/2006

Track&field coaching license (C-Lizenz)

Heinrich-Tellen-Schule
in Warendorf

8/2002 - 6/2003

Community Service
at a school for special education.

⚗️ INTERESTS

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

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

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

💬 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.