Daniel Kirsch

Mathematician. Full Stack Web Developer.

http://danielkirs.ch

+49 1511 5729370

Data Scientist at Hitfox Group with a math diploma from University of Münster and a background in **pattern recognition** and **machine learning**. Creator of **detexify**.

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

O EXPERIENCE

Hitfox Group

Incubator building companies and careers

6/2014 - present

Zweitag GmbH

Ruby on Rails Consultancy

8/2009 - 5/2014

Data Scientist

Responsibilities & Achievements

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

Software Developer

I worked on a variety of projects ranging from ecommerce sites and auction systems to business intelligence tools with data visualisations using D3.js. Zweitag applies behaviour driven development using Rspec, Capybara and Jasmine. As well as working on the Rails backend I am proficient with frontend technologies such as Haml, SASS and client-side Javascript-frameworks.

Responsibilities & Achievements

- Helped establish TDD/BDD as a company best-practice
- 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

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

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

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

${\it Tutorinstochastics / probability theory}$

Tutorials and correction of student homework.

Student worker: Voreen Volume Rendering Engine

VOLUNTARY EXPERIENCE

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 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 Community Service

Warendorf at a school for special education.

8/2002 - 6/2003

INTERESTS

- Reading technical books
- Data-driven decision making
- Open data / data-driven journalism
- Functional programming
- Pole vaulting

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

- Lean startup-methods
- Machine learning
- Data visualization
- Longboarding, wakeboarding, kitesurfing

REFERENCES

Julian Schneider, CEO and Founder at Zweitag GmbH (http://www.zweitag.de/de/team)

is my boss.

Peter Großkopf, Founder at Zweitag GmbH (http://www.zweitag.de/de/team)

was my boss and organises Monster on Rails.

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

supervised my diploma thesis at University of Münster.