

# Daniel Kirsch

Mathematician. Full Stack Web Developer.

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Full Stack **Web Developer** at Zweitag GmbH 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

## EXPERIENCE

**Zweitag GmbH**

Ruby on Rails Consultancy

8/2009 – present

Software Developer

I worked on a variety of projects ranging from ecommerce sites using **spree** 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

**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 **RESTful** 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

<b>Monster on Rails</b>	<b>Speaker</b> at the local Rails user group with talks on <ul style="list-style-type: none"><li>• Angular.js</li><li>• Functional Javascript</li></ul>
<b>Open Source</b>	<b>Occasional contributor</b> See <a href="http://github.com/kirel">http://github.com/kirel</a> .
<b>LG Brillux Münster</b> 10/2011 - present	<b>Sportwart Nachwuchs (Track&amp;Field Manager Young Athletics)</b> <b>Responsibilities</b> <ul style="list-style-type: none"><li>• Organisation and supervision of track&amp;field competitions</li><li>• Creation and implementation of young athletics nurturing programs</li><li>• Uniting coaches of the LG by shaping the mutual vision</li></ul>
<b>TuS Hiltrup 1930 e.V.</b> 8/2006 - present	<b>Track&amp;field coach</b> 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.
<b>FLVW</b> 8/2006	<b>Track&amp;field coaching license (C-Lizenz)</b>
<b>Heinrich-Tellen-Schule</b> in Warendorf 8/2002 - 6/2003	<b>Community Service</b> at a school for special education.

## INTERESTS

- Reading (lots of) technical books
- Data-driven decision making
- Open data / data-driven journalism
- Functional programming
- Pole vaulting
- Lean startup-methods
- Machine learning
- Data visualization
- Longboarding, wakeboarding, kitesurfing

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

## 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.

Prof. Dr. Nina Gantert (<http://www-m14.ma.tum.de/index.php?id=14>)  
was my statistics professor at University of Münster.

Prof. Timo Ropinski (<http://scivis.itn.liu.se/members/timo-ropinski>)  
is leading the Voreen project.