Daniel Kirsch

Mathematician. Full Stack Web Developer.

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🐦 @kirel

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 Mathmatics / Computer Science ⌀ 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 ⌀ 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 works behaviour driven using Rspec, Capybara and Jasmine. As well as working on the Rails backend I am proficient with frontend technologies like 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 prospect interns and student workers and (co-)authored best-practices regarding the hiring process
- (Co-)authored learning materials for interns and new hires

Visualization and Computer Graphics Research Group
of the University of Münster

10/2008 - 3/2009

Student worker: Voreen
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

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 – present

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 – present

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

- Reading (lots of) technical books
- Data-driven decision making
- Open Data / Data-driven Journalism
- Functional Programming
- Pole vault

- 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.