

Michael Simons

Senior Software Developer

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Profile

Born on September 21st, 1979 in Heinsberg, Germany. Proud husband and father of 2 kids, loves to code, passionate cyclist and music addict.

Schooling and apprenticeship / Studies

1986 – 1990	Gemeinschaftsgrundschule Heinsberg 1
1990 – 1999	Kreisgymnasium Heinsberg (Abitur <i>university-entrance diploma</i>)
01.09.1999 – 21.02.2002	Apprenticeship to Mathematisch-technischen Assistenten (IHK) at Forschungszentrum Jülich together with studies of Technomathematik (FH) (undergraduate)

Professional career

22.02.2002 – 31.03.2002	Forschungszentrum Jülich employed as Systemadministrator at the Institution for Nuclear physics (IKP)
01.04.2002 – 27.10.2014	Senior Software Developer at ENERKO Informatik GmbH
27.10.2014 – 30.09.2017	Lead Softwarearchitect at ENERKO Informatik GmbH
27.10.2014 – 30.09.2017	Prokurist (General Manager) at ENERKO Informatik GmbH
01.10.2017 – 30.06.2018	Senior Consultant innoQ Deutschland GmbH
01.07.2018 - today	Software Engineer Neo4j

Advanced training

06.05.2008	Sun Certified Programmer, J2SE Platform
19.05.2009	Staatlich geprüfter Ausbilder nach AEVO (IHK)
30.05.2012	Certified Spring Professional
08.02.2013	PRINCE2 ® Registered Practitioner
13.12.2015	iSAQB Certified Professional for Software Architecture (Foundation Level)
27.01.2017	Oracle Certified Professional Java SE Programmer (OCPJP 8.0)

Talks and publications

2016	Book	arc42 by Example - with Dr. Gernot Starke and Stefan Zörner
May 2016	Talk	Spring I/O 2016 - It's a kind of magic? - Custom Spring Boot Starter
September 2016	Talk	NetBeans Evening Cologne 2016 - NetBeans, Maven und Spring Boot ...mehr Spaß zusammen
October 2016	Article	JavaAktuell 04/2016 - Spring Boot Starter – komfortable Modularisierung und Konfiguration
November 2016	Talk	W-JAX 2016 - Keine Magie: Individuelle Spring-Boot-Module
November 2016	Talk	DOAG K+A 2016 - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
January 2017	Talk	Spring Community Meetup Munich - Database centric applications with Spring Boot and jOOQ
February 2017	Article	RedStack Magazine 01/2017 - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
April 2017	Talk	JUG Essen - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
May 2017	Talk	Spring I/O 2017 - Bootiful database-centric applications with jOOQ
June 2017	Talk	Transylvania JUG - Get The Most Out Of Your Data Layer
July 2017	Talk	JUG Essen - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
September 2017	Talk	Ordina Belgium - Live with your SQL-fetish and choose the right tool for the job JUG Mannheim - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
Oktober 2017	Talk	JUG Darmstadt - Hinter den Kulissen: Die Magie von Spring Boot
November 2017	Talk	JUG Münster - Datenbankzentrische Anwendungen mit Spring Boot und jOOQ
Januar 2018	Talk	rheinJUG - Hinter den Kulissen: Die Magie von Spring Boot
April 2018	Book	German Spring Boot Buch at dpunkt Verlag

Commitments

2013 – 2015	Chairman parental concil at my sons Kindergarten
2013 – today	Author JavaAktuell
2015 – today	JUG Leader EuregJUG
2015 – today	Contributor Spring Boot
2016 – today	Contributor Spring Security
2016 – today	Author at JAXenter.de and JAXenter.com
2016 – 2017	NetBeans Dream Team Member
2017 – today	Author RedStack
2017 – today	Author Heise-Verlag iX
2018 – today	Author Informatik Aktuell

References

Public and Open Source projects

- **Just another nerd blog**, info.michael-simons.eu

This is my IT Blog. I blog about software development, architecture and sometimes soft skills. I use this blog to publish solutions and additional content for my talks. Topics include Java (Java SE, Spring and Java EE), database development and some JavaScript. My content has been featured at spring.io, the Hibernate community newsletter and JAXEnter, both German and international version.

- **Daily Fratze**, dailyfratze.de

Daily Fratze is a daily photo project. Started back in 2005 „selfies“ was a word unknown. Back then I wanted to document my recovery from an illness. It started as a small PHP script, got transformed into a Ruby On Rails application that run for more than 3 years and became a Spring application in 2011. The selfie-hype has gone, but the community on Daily Fratze of more than 50 users, public and private, is still there. I met several of those people and most of them I can call friends now. I'm still taking care of the software and the infrastructure. Some technical background can be found under dailyfratze.de/pages/technical_details and the documentation of the idea itself is here: dailyfratze.de/pages/about. As silly as it might look, I learned a lot through Daily Fratze, being it infrastructure, Ruby on Rails, Spring or just community building.

- **Biking2**, <http://biking.michael-simons.eu> (Sources)

biking2 or „Michis mileage“ is a web based application for tracking cycling related activities. It allows the user to track the covered milage, collect GPS tracks of routes, convert them to different formats, track the location of the user and publish pictures of bicycle tours. This application represents a good spectrum of my skill set. It's been Spring Boot from the start, uses JPA 2.1, a task scheduler, deals with XML and certainly has an HTTP-API. The front end is done in HTML5 with AngularJS. The application has a test coverage of more than 95% and the documentation based on the arc42-template has developed into a book.

- **EuregJUG**, <http://euregjug.eu> (Sources)

A website and API for a Java User Group, the „EuregJUG“ in Aachen. It is used to coordinate dates, newsletter and talks. The site has a continuous delivery pipeline and runs on Pivotal Cloud Foundry.

- **wro4j-spring-boot-starter**, <https://github.com/michael-simons/wro4j-spring-boot-starter>

A Spring Boot starter for Wro4J: Wro4J is a tool for analysis and optimization of web resources. It brings together almost all the modern web tools: JsHint, CssLint, JsMin, Google Closure compressor, YUI Compressor, UglifyJs, Dojo ShrinkSafe, Css Variables Support, JSON Compression, Less, Sass, CoffeeScript and much more

Interesting profiles

- **GitHub**, github.com/michael-simons

The projects mentioned above and a lot of stuff more. I have been contributing to various Open Source projects, including Spring, Spring Boot and Oracle Docker Images, too.

- **Stack Overflow**, stackoverflow.com/users/1547989/michael-simons
- **Twitter** [@rotnroll666](https://twitter.com/rotnroll666)

Commercial projects

- Development and support of a complex client-server application that is used to manage articles and conditions, orders and fulfillment and invoicing for a service provider. The provider serves the private sector as well as municipality with spatial information systems and spatial data management (Used technology: Oracle Database 10g and 11g, Oracle Forms 6).
- Web based Task management for the same customer: The customer manages building lots and does a lot of field survey. The results of these works are tracked by this application (Used technology: Oracle Database 11, Grails Framework (1 and 2)).
- Conceptual work and implementation of a Java SE application that is used to manage and visualize the high-voltage-grid infrastructure of a German transmission network carrier.
- Conceptual work and partial implementation of a client-server application used to fully manage all aspects of a high-voltage-grid: Planning, usage rights, positioning of power rods etc. (Used technology: Oracle Database 11g, Oracle Spatial, PL/SQL, Java SE).
- Implementation of complex calculation rules used to compute rates of energy providers (Used technology: Oracle Database, Java and PL/SQL stored procedures).
- Conceptual work and implementation of an Excel based reporting engine that generates Excel files from arbitrary complex SQL-queries inside and outside of Oracle databases. The engine has been published together with an article in *JAVAaktuell* as *ENERKOs Report Engine*.
- Conceptual work and implementation of the REST backend for bekupi.de. bekupi is an application for managing, configuration and localization of iBeacons (Used technology: Spring MVC, Spring Data MongoDB and MongoDB).
- Conceptual work and first implementation of a modern web-frontend for ENERKO INFORMATIKs *EnSupply* based on Spring Boot and jOOQ.
- Conceptual work and integration of Camunda BPMN Engine with a proprietary micro service stack based on Jersey and HK2 for a German fin-tech startup. Creating a PoC for gradually replacing the proprietary stack with micro services based on Spring Boot. Implementing a custom Spring Security filter to adapt to the homegrown authentication mechanism behind a border proxy.
- Lead a distributed team with 5 developers in the same fin-tech implementing a REST-service that communicated with a HTTP-RPC-style portfolio management system (PMS) as a backend and provided aggregates of the data as a REST frontend. My responsibilities included trilateral communication between our team, the PMS team and a Rumanian team that created the frontend UI. We used Spring Boot, Spring HATEOAS, RestTemplate, MQTT and Jersey / JAX-RS. We were able to provide a non-blocking API through asynchronous resources with completable futures while having to make synchronous backend calls.
- Architecture coaching for a German company creating E-Learning solutions. Evaluated the current state of products, created a quality tree and assessed the fitness of a proposed, new architecture. Created a template for documenting the new architectures based on the arc42 template. Also did some team coaching.

Skills

Administration

I'll be able to setup any Microsoft Windows and Apple macOS client and administrate it. I have experience with virtual infrastructure based on Oracle VM and extensive knowledge with VMWare ESXi. My preferred environment for servers is still Linux.

I doesn't care much wether I need to use a UI or shell for administration.

Software development

I know how what agile development and Scrum is and have an idea about TDD. MVC and MVP are not empty acronyms for me and if necessary, I can draw boxes and arrows around stuff and call it UML. I'm efficient enough with the usual office tools, but prefer my writing in Markdown, AsciiDoc or LateX. I regularly use Docker containers to run my integration tests. All other relevant skills I've listed in the following short skill matrixes:

Languages

	Awareness	Knowledge	Expert
C	■		
C++	■		
Groovy	■	■	
Java	■	■	■
JavaScript	■	■	
PHP	■	■	■
PL/SQL	■	■	■
SQL	■	■	■
Ruby	■	■	
Kotlin	■		

Frameworks

	Awareness	Knowledge	Expert
Grails	■	■	
JPA 2 (with Hibernate)	■	■	■
Oracle Forms 6i	■	■	■
Ruby on Rails	■	■	
Spring Framework	■	■	■
Spring MVC	■	■	■
Spring Boot	■	■	■
jQuery	■	■	■
Angular JS (1)	■		
Android (4.3+)	■		

Operatingsystems

	Awareness	Knowledge	Expert
Debian GNU/Linux	Light Gray	Medium Gray	Dark Gray
macOS	Light Gray	Medium Gray	Dark Gray
Oracle Enterprise Linux	Light Gray	White	White
Windows 2000, XP	Light Gray	Medium Gray	Dark Gray
Windows 7	Light Gray	Medium Gray	Dark Gray
Windows Server 2008 R2	Light Gray	Medium Gray	White
openSUSE	Light Gray	White	White

Tools

	Awareness	Knowledge	Expert
CVS	Light Gray	White	White
Eclipse (and STS)	Light Gray	Medium Gray	Dark Gray
Emacs	Light Gray	White	White
Git	Light Gray	Medium Gray	Dark Gray
Netbeans	Light Gray	Medium Gray	Dark Gray
SVN	Light Gray	Medium Gray	Dark Gray
Textmate	Light Gray	Medium Gray	Dark Gray
VIM	Light Gray	Medium Gray	White
Docker	Light Gray	Medium Gray	Dark Gray
Kubernetes	Light Gray	White	White

Databases

	Awareness	Knowledge	Expert
MySQL	Light Gray	Medium Gray	Dark Gray
Oracle 8i / 9i / 12c	Light Gray	Medium Gray	White
Oracle 10g / 11g	Light Gray	Medium Gray	Dark Gray
MongoDB	Light Gray	White	White

Misc

	Awareness	Knowledge	Expert
CSS	Light Gray	Medium Gray	White
HTML	Light Gray	Medium Gray	Dark Gray
SQL	Light Gray	Medium Gray	Dark Gray
XML transformation w XSLT	Light Gray	Medium Gray	Dark Gray