

lorenz lo sauer

Consultor informático

📍 España 🔗 <http://lsauer.github.io/> 🐦 [sauerlo](#) 🌐 [lsauer](#)



Last seen: today

Top 1% 🏆 javascript

Top 5% 🏆 javascript-events string svg

Top 10% 🏆 c# django html php sql

I am a passionate *Full Stack Software Developer* bringing many years of professional programming experience, utilizing primarily Java, C++ and C# for strongly typed languages and PHP, JavaScript, Python and R elsewhere. Continuous efforts in .NET and JavaScript help me maintain a deep understanding in these game-changing languages.

My *work experience* has been deeply influenced by technical, data-intensive software solutions. These experiences endowed me with a strong background in database design and data provisioning.

Writing software wouldn't be as much fun without the diverse group of people I was fortunate to meet throughout my career. A good deal of my personal effort to write lean, clean code is simply that my code should be understandable and well maintainable by peers at all times, as a key part of what it means to be a "social coder".

User-Interface (UI) and User-Experience (UX) design has often been an integral part of my labor and is something I particularly enjoy and always strive to improve.

You can find a summary of some of my work [here](#), and some of my designs at [behance](#) and [google+](#). Unless otherwise indicated these works are under the creative commons license, CC-BY-SA.

I also *do pro-bono work* for NGOs and am generally up for a match of badminton, shooting hoops on a nearby basketball court or hiking around in nearby greenbelts.

Soy un programador apasionado de pila completa llevando muchos años de experiencia en programación profesional, utilizando principalmente Java, C++ y C# para los idiomas fuertemente tipados además PHP, JavaScript, Python y R. Continuamente trabajando en .NET y JavaScript lo me ayuda a mantener un profundo conocimiento de idiomas de vanguardia.

Mi *experiencia de trabajo* ha sido profundamente influenciada por las soluciones de software técnicas y de uso intensivo de datos. Estas experiencias me dotan con una formación sólida en diseño de bases de datos y gestión de ellos.

Escribir software no sería tan gratificante sin las personas de diversos grupos que yo tuve la suerte de conocer a lo largo de mi carrera. Una buena parte de mi esfuerzo personal para escribir código de manera limpia es simplemente que mi código debe ser comprensible y mantenible por mis compañeros en todo momento, como una parte clave de lo que significa ser un "programador social".

Tanto el diseño de la interfaz de usuario (UI por sus siglas en inglés) como de la experiencia del usuario (UX por sus siglas en inglés), a menudo han estado una parte integral de mi labor, lo que es algo que me gusta especialmente y siempre me esfuerzo por mejorar.

Puede encontrar un resumen de algunas de mis obras [aquí](#), y algunos de mis diseños en [behance](#) y [google+](#). A menos que se indique lo contrario estas obras están bajo la licencia Creative Commons CC-BY-SA.

También hago trabajo pro-bono para las ONG y en general estaría dispuesto a jugar un partido de bádminton, de tirar canastas en una pista de baloncesto o de hacer una caminata alrededor de las zonas verdes cercanas.

TECHNOLOGIES

Tech you want to work with

c# javascript node.js cil php model-view-controller sql data html5

EXPERIENCE (10) [SHOW ALL](#)

Web Developer / UX Designer

Aug 2014 → Oct 2015

IXOLIT

php javascript coffeescript mysql jquery html5-canvas jenkins web-applications

- Designing and realizing cloud based web-applications (AngularJS et al.)
- relationship linkage-editors, content-editors, banner-generator
- Statistics plots and graphing of the content delivery ecosystem for the customer area
- pragmatic unit testing
- Automated UI Testing (PhantomJS, Selenium)
- Documenting
- Continuous integration workflow
- Automated Build and Task Runner Workflow

Senior Software Engineer

Apr 2013 → May 2014

ANEXIA

django php python-2.7 python-3.x c#-4.0 c#-5.0 encryption synchronization asynchronous documentation
html5 zend-framework javascript jquery performance

- Django 1.x framework extension writing and maintenance
- Performance profiling and improvements of web frameworks
- De novo Customer Service Platform in PHP5 w. Zend
- Synchronization Client for .NET: A local Database like MSSQL is synchronized through a Generalized Abstract Intermediate Data Description Language via a stateless REST API
- Typo 3 Module Implementation
- Documenting
- Customer Support

▼ Software Developer

Feb 2013 → Mar 2013

Cemper GmbH

php-5.3 redis node-redis mysql distributed-computing distributed-transactions html5

- Distributed computing project
- Analysing a large codebase (>10Mb)
- Feature implementation, testing and deployment
- Technical SEO and statistical evaluation

▼ Thesis programming

2011 → 2012

Molecular Systems Biology, University of Vienna

php javascript sql rpc wsdl soap jquery performance jquery-ui

- title: "A distributed data aggregation platform for plant metabolomics and biochemistry"
- implementation of a distributed data aggregation platform with API and database federation and ETL tasks to render scientific data into a well described and accessible form
- advanced visualization of bioinformatic aggregation data
- creation of a JSON based RPC that federates web-services and makes them accessible in the browser-DOM through a thin MVC layer. Fast performance with tens of 1000's of federated services
- specialties include: highly heterogeneous databases, database federation, database warehousing as well as some wet-lab work and mass spectrometry.

▼ hardware, database and web programming

2004 → 2009

Freelance Web Developer / Designer

database fpga php .net c#-4.0 c++ sql etl

client orders included:

- programming a PHP extension / plugin for a USB Device
- adapting and transitioning to a new CMS
- full-stack: CRM application for a client intranet
- adaptation of a shopping cart script (SSL encryption and social login)
- correlation visualization of customer feedback data
- advanced data cleaning / filtering

▼ thesis programming

2003 → 2004

HTLW16 - engineering school

opencv opencvdotnet c# .net com winapi thread-safety vision winforms

- title: "Artificial vision interface (AVI)"
- conception and implementation of an eye tracker based on Hidden Markov Models and an extended .NET wrapper for OpenCV – a computer vision library.
- creating a novel .NET user interface library, heavily utilizing direct Win32 API access for performance purposes and a browser API for rapid prototyping capabilities.
- the resulting Multimedia eXtended Library enables similar GUI features as Adobe and Macromedia provided at that time.

▼ Full stack programmer

2002 → 2003

WunderWerk

asp dhtml mysql postgresql javascript php

- full-stack: project planning, cost calculation, client consulting, design, web programming as well as project deployment to a Linux (LAMP) server and initial server administration.
- created an advanced secure, content-management system with a DHMTL picture editor, utilizing a client-server architecture for the picture processing.

▼ Junior programmer

Jan 2002 → Aug 2002

web-tech

postgresql asp-classic html xml javascript

- backend web-programming, database architect.
- performance tuning of SQL clauses including multiply joined queries and index optimization

▼ Technical Assistant

Jun 2000 → Aug 2000

Gesig - company for barrier and signalling systems

hardware tester

- carried out examinations of printed circuit board
- performed a stepwise analysis and subsequent repair of printed circuit boards



Trainee, Gesig

Jun 1999 → Aug 1999

Gesig - company for barrier and signalling systems

c hardware interface

- carried out on-site diagnostics
- performing remote analysis of signalling and barrier systems all across Vienna

5 fewer

EDUCATION SHOWALL

▼ Molecular Biology

Aug 2005 → Sep 2012

University of Vienna

- titulation of Mag.rer.nat. (equiv. B.Sc. + M.Sc.)
- graduation with distinction (top 5%)
- subjects: Informatics, Chemistry, Biochemistry

▼ Chemical Biology

2006 → 2011

University of Vienna

- B.Sc., Diploma study: Chemistry.
- Graduation with a Bachelor degree

Technical Informatics

1999 → 2004

HTLW16 (engineering school : Electronics & Technical Informatics)

CERTIFICATIONS

CISCO Networking Certification (CCNA)

2004 → 2004

Oxford University First Certificate in English

2003 → 2003

OPEN SOURCE (7)

 **Portable Cast-Convert-Transform**

Sep 2016 → Oct 2016

.net

 **dna.js**

Jun 2012 → Aug 2012

 **chrome-session-restore**

Oct 2011 → Oct 2011

javascript

 **is-library**

Sep 2011 → Oct 2011

javascript








 **entropy**




Sep 2011 → Sep 2011

C#

2 more

TOP POSTS

- ▶  27 **Is it possible to simulate key press events programmatically?** 2013/11
- ▶  51 **How to hide some fields in django-admin?** 2013/9
- ▶  19 **Arduino Due HTTPS Support** 2013/4
- ▶  23 **When to use ref vs out** 2012/9
- ▶  40 **How to check iOS Version is iOS 6? [duplicate]** 2012/9
- ▶  4 **querySelector, wildcard element match?** 2012/5
- ▶  134 **Count the number of occurrences of a character in a string in Javascript** 2012/5

- ▶  **190** [window.onload vs document.onload](#) 2011/9
- ▶  **5** [jQuery UI dialog is not draggable or resizable](#) 2011/9
- ▶  **41** [How to terminate the script in Javascript](#) 2011/8

APPS & SOFTWARE


- ▶ [Chrome Session Restore / Recovery of corrupted Session files #web app design github](#) 2011
- [html5](#) [javascript](#) [webkit](#)

PUBLIC ARTIFACTS [SHOWALL](#)

- ▶ [Isauer/coffeemug · GitHub — GitHub](#) 2014
- ▶ [Wikibook_Scalable-web-applications-for-Metabolic-science_2011-2012_R_excerpt.pdf - Google Drive](#) 2012
- ▶ [Excerpt from the Open Book "Scalable web-application development"](#) 2012

STACK EXCHANGE

Accounts

 Stack Overflow	11732 reputation points
 Biology	775
 Super User	505
 Game Development	342

READINGS

- [Data Management of Protein Interaction Networks \(Wiley Series in Bioinformatics\)](#)
Mario Cannataro, Pietro H. Guzzi
- [The Fourth Paradigm: Data-Intensive Scientific Discovery](#)
- ▶ [Mining of Massive Datasets](#) Anand Rajaraman, Jeffrey David Ullman
- ▶ [Code Craft: The Practice of Writing Excellent Code](#) Pete Goodliffe

TOOLS

First computer

IBM PC / Intel 386

Favorite editor

Jetbrain's Productline