

# Simon Aebersold

## Curriculum Vitae

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23.04.1988, Zurich



### Education

- 08/2013–08/2016 **Bachelor of Science in Computer Science (BSc)**, *Zurich University of Applied Sciences (ZHAW)*, Winterthur.  
(expected) Major field of study: Software Engineering / Security  
Project Thesis: Obfuscated/Malicious JavaScript Detection (Machine Learning)  
Bachelor Thesis: Advanced Persistent Threat Frameworks for Security Testing and Training (extending a Windows Malware suite, including a C&C server)
- 08/2011–12/2012 **Technical Vocational Baccalaureate (Berufsmatura)**, *AKAD*, Zurich.
- 06/2004–06/2008 **Information Technology Apprenticeship (Informatiker Systemtechnik EFZ)**, *BBW*, Winterthur.

### Work Experience

- 08/2013–present **Freelance Software Engineer**, *aebersold webdevelopment*, Humlikon.  
Freelancing as web developer, consulting and software engineering.
- Web development for web agencies, graphic designers and small/medium businesses.
  - Consulting for an industry automation company (MES), helped build a responsive HTML5/JS dashboard with SAP MII, for desktop and mobile clients.
  - Consulting for a retail POS software company, built a new messaging module for their PHP backend and integrated a web based message client into their touchscreen POS software. Optimized development processes and advised on technology decisions.
  - Built a hotel search engine for a travel agency, development from concept to finished product, including technology decisions, custom CMS solution (Laravel Framework), frontend development and DevOps activities.
- 06/2013–08/2013 **Software Project Manager**, *factor AG*, Zurich.  
Project Lead and Development Lead for a new release of databot.ch, a trade register and business information platform (3 month contract).
- Built and coordinated a new release for *factor's* databot.ch platform. Helped design and rebuild a lot of their application with HTML5, SASS, jQuery, Python/Django. Successfully launched the new release on time and coached the team on web technologies.
- 08/2012–06/2013 **Web Developer**, *Gold Interactive*, Zurich.  
Development of websites, web applications and microsities for some well known customers like *Hotelplan*, *Die Mobiliar*, *Basler Versicherung* and more.
- Lead backend development involving technologies like PHP, MySQL, Laravel, REST APIs and Contao.
  - Frontend development using HTML5, SASS, JavaScript, jQuery, Responsive Design and more.

- 01/2011–07/2012 **Web Developer, Sysadmin**, *factor AG*, Zurich.  
 Web development with HTML, JS, CSS, PHP, MySQL, Python on databot.ch and other projects, design/UI work and Linux/Windows sysadmin.
- 08/2008–12/2010 **Web Developer, Sysadmin**, *TIW GmbH*, Zurich.  
 Web development with HTML, JS, CSS, PHP, MySQL, Python for various web projects, Linux/Windows sysadmin.
- 06/2004–06/2008 **Information Technology Apprenticeship (Informatiker Systemtechnik EFZ)**, *Busser Informatik*, Dinhard.  
 Learned the IT fundamentals, systems, networking, infrastructure, support.

## Awards

- 2009 Honor for "Individuelle praktische Arbeit" (IPA) — "Im Rang", Grade 5.5/6.

## Organizations

- 2015–present Information Security Society Switzerland (ISSS), Member

## Technical Skills

### Programming Languages

- Strong Understanding **PHP** – professional use.  
**HTML/CSS** – professional use.  
**JavaScript** – professional use.  
**SQL** – professional use.
- Moderate Proficiency **Java** – quite a lot of ZHAW projects, Desktop and Android.  
**Python** – preferred scripting language, data processing, machine learning.  
**C** – a few ZHAW projects on x86 and ARM.  
**Bash/Shell** – scripting as needed.
- Familiar With **.NET C#** – a few ZHAW projects.  
**ARM Assembly** – a few ZHAW projects.

### Computer skills / varia

- OS Mac OS X, Linux, Microsoft Windows
- Databases MySQL, Postgres, CouchDB (NoSQL), MS SQL
- SW Dev. Scrum, Unified Process, UML, TDD, Jenkins CI, SonarQube
- Networks Infrastructure networks, Routing, Firewalls, Protocols, TCP/IP, TLS
- Security Public-key crypto, Snort IDS, Burp Suite, sqlmap
- Frameworks Laravel, Node.js, jQuery, Django, Matplotlib, scikit-learn
- Software MS Office Suite, Photoshop, Eclipse, git, svn, Apache, nginx

## Hobby Projects

- carmetriqs In 2012 I built a car database specialized on performance statistics and comparisons, using the Laravel MVC framework, MySQL, HTML5/JS/CSS and Python for web crawling and data extraction.
- zhawo? App zhawo is an Android App I co-developed to find free rooms at ZHAW.
- stundenplan stundenplan is a command line client for the ZHAW course schedule.

## Languages

- German **Mothertongue**
- English **Fluent** *Con conversationally fluent*