

# Alexander Sennhauser

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## Objective

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As an engineer in computer science (M.Sc. communication systems, ing. sys. com. dipl. EPF) with emphasis on networking, databases, distributed systems and security, I am passionate about applying my education and experience to build systems that solve real-world problems.

## Skill Set Overview

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- Design and implementation of software systems in C++, Python, Java (J2EE), and Perl
- Clean Code Developer
- Database systems including PostgreSQL, nCluster, and MySQL
- Networking technology including IPv4 / IPv6 and related protocols
- Web building standards such as XHTML and CSS
- Business model and strategy analysis

## Professional Experience

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### *Office of the CTO at Open Systems AG*

Zurich, Switzerland  
2011 – now

- Working on company strategy including analysis of the current service portfolio, market, and business model

### *Security Engineer at Open Systems AG*

Zurich, Switzerland  
2010 – now

- Member of the engineering team which is responsible for infrastructure development, operating system maintenance (mostly Linux) and hardware selection
- Responsible for the design and implementation of the engineering wide end-to-end testing infrastructure; promoting testing tools among developers to increase software quality
- Mission Control certified engineer providing technical support to multinational companies and non-government organizations

Environment: Various Linux flavors, Perl, Bash, VmWare, XHTML, jQuery, Git / SVN

### *Member of Technical Staff at Aster Data Systems*

San Carlos, California, United States of America  
2007 – 2010

- Early hire and member of the core engineering team making numerous contributions to Aster's large scale data analytics solution
- Responsible for the loading and exporting pipeline system components, scalable error logging for bulk loading, SQL-MapReduce based external data source connectors, various bulk loading utilities, data validation technology and client utilities
- PostgreSQL development with contributions to the open source community
- Leading the technical efforts to integrate Aster nCluster with the Informatica PowerCenter data integration platform
- Contributor to Aster's large scale ETL system to transform click stream data; helped productize it at one of Aster's largest customers
- Writing of customer facing best-practice guides to support customer training sessions on Aster technology

Environment: Various Linux flavors, C/C++, Python, PostgreSQL, nCluster, Git / SVN

## Education

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*Ecole Polytechnique Fédérale de Lausanne (EPFL)*  
Lausanne, Vaud, Switzerland  
Master in Communication Systems  
2008

## Academic Software Projects

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*A Framework and Interface for Hardware Fault Injection in Distributed Systems*  
Master Thesis, Prof. George Candea, EPFL  
2008

- Design and implementation of a framework that allows for automated fault injection in a distributed system
- Open-source machine emulator to perform hardware fault injection at the level of hard drives, network components and cluster nodes
- Application programming interface to express failure scenarios and coordinate fault injection among nodes

Environment: Various Linux flavors, Qemu, C/C++, Python

*MockStock: A Stock Trading Application*  
Middleware, Prof. Benoît Garbinato, EPFL  
2007

- Publish-subscribe stock trading application based on message oriented middleware enterprise technology

Environment: Debian Linux, Java including J2EE and JMS

*DEL: Distributed Event Logging*  
Principle of Dependable Systems, Prof. George Candea, EPFL  
2006

- Reliable framework to automate data provenance collection for monitoring purposes in a distributed system

Environment: Debian Linux, Apache James SMTP server, MySQL, Java including JDBC, Perl

## Interests and Other Skills

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### Languages

- Swiss German / German
- English
- French

### Sports

- Soccer, Running, Mountain Biking, Snowboarding, Group Fitness

### Other

- Cooking, Entrepreneurship, Traveling, Photography

## References

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Furnished upon request