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Born 1968, married, two children

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Languages

German ●●●●●●●●
English ●●●●●●●●
French ●●●●●●●●

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More than 15 years of experience as expert Java software engineer

Skills

- Expert Java software engineer
More than 15 years of experience with Java
- Java backend developer
Spring, JPA, Hibernate, Tomcat, JBoss
- Java frontend developer
Swing, JavaFX
- Java fullstack developer
MySQL, JavaScript, jQuery, Bootstrap, Angular
- CI/CD & team collaboration
Git, IntelliJ IDEA, Jenkins, Docker, Scrum, SAFe

Fields of Experience

- Financial market
- Pharmaceuticals
- Industry

Education

- Graduation as engineer HTL at Biel School of Engineering
Corresponds to today's master in information technology at university of applied sciences

Soft Skills

- Fast adaption to new projects and new technologies
- Great experience in highly complex software projects
- Rapid, efficient, but still very precise way of working
- Reliable, resilient, quality-aware and customer oriented

Fields of Experience – some example projects

Financial Market

I worked on various projects in the financial market. Many of them dealing with the distribution and display of market and reference data, where data from all over the world were collected and distributed almost in real time to thousands of clients.

Example projects are **SIX iD** or **SIX Flex**.

Other projects were related to the processing of financial data, including the secure execution of financial transactions in credit card terminals like the **Thales Artema** project.

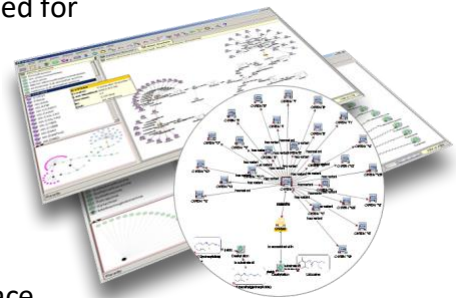
Swiss Fund Data is related to fund management including the application of regulatory requirements and legal documents.



Pharmaceuticals

SafeBase is an example project in the pharmaceutical industry I worked on. It is an expert system based on a large database with statistical data of drugs and their adverse reaction. The system is used for the prediction of potential adverse reactions in the development of new drugs. It models genetic and pharmaceutical relationships and detects patterns which lead to adverse reactions in other drugs.

The system consists of a backend part with a shared database and a highly complex user interface where different graphs of genetic relationships were visualized.



Industry

IMD v4/v5 is an optical inspection system in the production of injection molding parts, e.g. PET bottles and caps. High speed images captured directly inside the production line are analyzed for a variety of errors, including deformations, color deviations, etc. Processing speeds of up to several thousand pieces per minute require very fast image analysis algorithms.

Heacon is a web application used for the automatic dimensioning of different heating systems. The system calculates the required heating power for different heating sources and compares them graphically. A bill of material and an approximate offer is calculated automatically for the chosen heating system.



Projects – a selection of projects from the past 20 years

SIX Flex

Jun. 2018 – Oct. 2019

Web application used to process and deliver reference data of SIX in a customer configurable format. Clients can subscribe to several data packages with basic reference data, corporate actions, MiFID2 relevant data, etc.

Customer SIX Financial Information, Zürich (CH)
Roles Software developer
Technologies **Java, Spring, JPA, React, HTML5**

Telekurs iD / SIX iD

Feb. 2005 – Oct. 2019

Java Application used to display worldwide reference and market data, news, and other information based on the data universe of SIX and third party providers. Besides Bloomberg and Reuters, SIX iD is one of the leading data terminals for the display of real time reference and market data.

Customer SIX Financial Information, Zürich (CH)
Roles Architect, software developer, UX designer
Technologies **Java, Swing**

Swiss Fund Data

Nov. 2010 – Dec. 2018

Web application used to manage and display fund information, official publication agency for the Swiss fund market. Consists of an administration application for the management of fund information including daily prices, legal documents, etc. and a public web site built with responsive technology, optimized to be used on phones and tablets.

Customer Swiss Fund Data AG, Zürich (CH)
Roles Project manager, architect, developer, UX designer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, HTML5, CSS, Bootstrap, JavaScript**

IMD v4 / v5

Sep. 2008 – Feb. 2009 / Dec. 2016 – Dec. 2018

Controlling software for optical inspection systems in the production of injection molding parts, e.g. PET bottles and caps. Contact-free detection of defects in form, texture, color, etc. based on the visual analysis of images captured directly within the production line.

Customer IMD Ltd., Brugg (CH)
Roles Architect, software developer
Technologies **Java, Swing, JavaFX, Visual C++**

Order Submission Tool

Aug. 2012 – Sep. 2018

Web application for professional fund managers used to process buy and sell orders in the fund and ETF business. Automatic creation and distribution of PDF forms.

Customer UBS AG, Zürich (CH)
Roles Project manager, architect, developer, UX designer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, HTML5, CSS, Bootstrap, JavaScript**

Global Information System

Jul. 2014 – Feb. 2018

Web application used to conceive and manage incidents in all SIX payment systems. Determines automatically which clients are affected by a given incident and informs them selectively.

Customer SIX Payment Services, Zürich (CH)
Roles Architect, software developer, UX designer
Technologies **Java, Grails, Groovy, MySQL, HTML, CSS, JavaScript**

TSE JDR Reporting

Feb. 2015 – Sep. 2019

Automatic reporting of relevant data for ETF's traded on the Tokyo stock exchange. Automatic creation of multi-page PDF reports in Japanese language, containing up-to-the-minute market data.

Customer UBS AG, Zürich (CH) & Tokyo (JP)
Roles Project manager, architect, software developer
Technologies **Java, PDF**

CAT-S / Marguns

Apr. 2009 – Jan. 2015

Automatic calculation of buy and sell recommendations for shares, based on the analysis of actual and historical stock exchange data.

Customer Marguns AG, Schaffhausen (CH)
Roles Project manager, architect, software developer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, JavaScript**

JProfiler Integration Plugin

Sep. 2004 – Dec. 2016

Plugin used to integrate JProfiler into IntelliJ IDEA. Enables the profiling of standalone and server based applications directly from within IntelliJ IDEA, greatly simplifying the work with JProfiler.

Customer ej-technologies GmbH, Munich (DE)
Roles Project manager, architect, software developer
Technologies **Java, IntelliJ IDEA API**

Order Book Server

Nov. 2007 – Sep. 2013

Server software used to read bid and ask prices directly from the exchange data feed and calculating order books based on these values. Feeds the calculated order book data in real time into the SIX market data feed (MDF).

Customer SIX Financial Information, Zürich (CH)
Roles Architect, software developer
Technologies **C++, Linux**

ELCO Heizberater / Heacon

Oct. 2005 – Dec. 2009

Web application used for the automatic dimensioning of different heating systems. The system calculates the required heating power for different heating sources and compares them graphically. A bill of material and an approximate offer is calculated for the chosen heating system.

Customer ELCO Heating Solutions, Hechingen (DE)
Roles Architect, software developer, UX designer
Technologies **Java, Java Server Faces, Java Servlets, MySQL, JavaScript**

Thales Artema

Jul. 2006 – Dec. 2006

Support and further development of the embedded software inside the credit card terminal Thales Artema. Controls the interaction with the user (e.g. PIN entry), processes the required security checks, and forwards the transaction to the payment servers.

Customer SIX Payment Services, Zürich (CH)
Roles Software developer
Technologies **C/C++, embedded development environment**

iD Server

Jul. 2002 – Oct. 2005

Real time processing of worldwide stock exchange data with minimal latency (market data by SIX MDF, reference data by SIX VDF) and preprocess for the delivery to different client systems. Handling of over 12 million financial instruments in real time and simultaneous delivery to a large number of consumers.

Customer SIX Financial Information, Zürich (CH)
Roles Architect, software developer
Technologies **C++, MySQL, Linux**

SafeBase

Sep. 2001 – Feb. 2002

Database based expert system for the prediction of potential adverse reactions in the development of new drugs. Modeling of genetic and pharmaceutical relationships.

Customer TheraStrat AG, Allschwil (CH)
Roles Architect, software developer, UX designer
Technologies **Java, Swing, Apple WebObjects**