

# Curriculum Vitae

## Personal informations

Name	Stefan Sonntag
Date and place of birth	07.02.1972, Frankfurt a.M.
Family status	married
Citizenship	German

## Occupational Activities

09/2019 – 03/2021	<p>Kotlin backend development for the OLX Group GmbH.</p> <p>Implementing new Microservices, maintaining existing services and extracting logic from a monolithic service into several Microservices allowing users to pay using different payment methods (e.g. credit card, instant bank transfer) of various payment providers (e.g. Adyen, PayU, Portmone, Jazzcash).</p> <p>(Kotlin, SpringBoot, Spring Data, Spring Security, JPA, Flyway, Liquibase, JUnit 5, Mockito, MockK, Dropwizard, Vert.x, Gradle, Gitlab, Kanban, IntelliJ IDEA, Kubernetes, OpenShift, AWS, EKS, Docker, Microservices, PostgreSQL, MySQL and REST-APIs)</p>
07/2019	<p>Implementation of complex Cucumber scenarios for BlackBox tests of T-Systems “Konnektor” hardware for the “Telematikinfrasturcture” (TI). The TI securely connects all participants of the public health sector and is accessed through a hardware device called the Konnektor. Such a Konnektor was connected to each developers working place while the TI and other devices, such as card terminals, where simulated by software components running in Docker containers. The project took place in the german public health sector.</p> <p>(Java 8, Cucumber, Junit, Git, IntelliJ IDEA, Maven, REST, SOAP, Docker, JIRA, Confluence, GitLab, Kanban, SICCT, Smartcards).</p> <p>Unfortunately the project was canceled three weeks after I joined.</p>
06/2018 – 07/2019	<p>Java backend development for the E-Post Development GmbH.</p> <p>Redevelopment of a legacy billing system with a messaging system based approach.</p> <p>(Java 8, Apache Artemis, Spring Boot 2.0, Spring Data, Hibernate, JPA, Oracle 12, Maven, IntelliJ IDEA).</p>

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06/2017 – 05/2018	<p>DevOps and maintenance of existing legacy billing components. (Java 1.6 – Java 8, Spring, Spring Boot, Grails, Mockito, REST, Gradle, Liquibase, Maven, Git, Bitbucket, JIRA, Confluence, TeamCity, Puppet, Consul, Splunk, CheckMK, HAProxy, OpenNebula, CentOS).</p> <p>Java and Kotlin backend development for Zalando SE.</p> <p>Planing and implementation of multiple Microservices for order management, logistics and return shipments.</p> <p>Requirement analyses by interviewing involved teams and implementation of these these requirement as Microservices.</p> <p>Migration of logic encapsulated in monolithic legacy systems into Microservices.</p> <p>Implementation of updates and fixes for monolithic legacy systems.</p> <p>Realisation and updates of front end features.</p> <p>Deployment and mainenance of services in AWS and Kubernetes.</p> <p>(Java 8, Kotlin, Rust, JavaScript, Python, Spring, Spring Boot, PostgreSQL, JOOQ, Apache Kafka, Apache Camel, Mockito, KotlinTest, REST, MicroServices, Gradle, Maven, IntelliJ IDEA, Git, Github, AWS, Docker, STUPS, Kubernetes, Node.js, React)</p>
03/2017 – 06/2017	<p>Java backend development for Interhyp AG.</p> <p>Integrate the resource loading mechanism of Spring into an internal Java framework, so that resources can be loaded from the file system and from Jars.</p> <p>Implementation of an Apache Velocity adapter to load templates using the this new resource loading mechanism.</p> <p>Implementing features for a B2B newsletter system in a Java monolith.</p> <p>(Java 8, Spring, Oracle, TestNG, Jmockit, IntelliJ IDEA, Git, Bitbucket, Gradle, Tomcat)</p>
10/2016 – 02/2017	<p>Java backend development for HRS Innovation Hub/Codenet GmbH.</p> <p>Development and planning of Java-Services/-Microservices for hotel reservations that are hosted on AWS. Implementation of a server-less AWS Lambda function consuming SQS messages/SNS events.</p> <p>(Java EE, Java 8, Spring, Spring MVC, Spring Boot, PostgreSQL, Liquibase, REST, Swagger, IntelliJ IDEA, JUnit, Gradle, Mockito, RestAssured, AWS SQS/SNS, AWS Lambda, Git, Bitbucket)</p>
04/2016 – 08/2016	<p>Java backend development for GASTROFIX GmbH.</p>

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- Responsible for the design and implementation of REST-APIs using Microservices. For the publishing and authentication/authorization the API Manager of the company WSO2 was used. (Java EE, Java 8, JPA, Spring, Spring MVC, Spring Boot, Spring Security, PostgreSQL, Flyway, REST, Swagger, IntelliJ IDEA, JUnit, Jenkins, Maven, Sonar Qube, Python, Git, GitHub).
- 10/2015 – 03/2016  
Java back end development for Zalando SE. Refactoring of existing web services in the field risk management/payment control. Restructuring of web services into Microservices, that are hosted at Amazon Web Services (AWS) (Java EE, Java 8, Functional programming, Spring, Spring MVC, Spring Boot, PostgreSQL, Stored procedures (Sprocs), KairosDB, REST, Swagger, JAX-RS, SoapUI, IntelliJ IDEA, JUnit, Jenkins, Maven, Gradle, Docker, Apache CXF, STUPS, Radical Agility, Jetty).
- 11/2014 – 09/2015  
Design and implementation of a Broker system, that scales out to handle millions of clients in a team for the T-Systems GmbH. The development takes place in the field ConnectedCar / Internet of Things (IoT) / Machine to Machine (M2M) (Java EE, Spring, Spring-Integration, Enterprise Integration Patterns, Hibernate, JPA, PostgreSQL, Groovy, Spock, JUnit, WebSockets, Cassandra (NoSQL), Maven, Jenkins, SonarQube, WSO2 AS/ESB, Tomcat, MQTT, STOMP, JMS / ActiveMQ, Docker, Microservices, REST, Apache CXF, JAX-RS, Swagger, SoapUI, UML, Enterprise Architect, Eclipse).
- 07/2014 – 09/2014  
Update of the Android app „MyMedico“
- Implementation of a calendar system, including reminder and repeating appointments. The reminder is shown inside the app, if it is running in the foreground, otherwise an Android notification is created. The appointments can also be exported into a PDF document.
  - Implementation of a backup and restore functionality. All app data is password encrypted with AES and stored into a ZIP archive. This archive can be emailed and if the receiver touches the archive inside his Android email client, the MyMedico app is started and the user can restore the data if he knows the correct password. Therefore the file extension and the mime type of the archive are associated with the MyMedico app.
  - Implementation of new and enhancement of existing forms to store medical data like the blood pressure.
- 04/2014 – 08/2014  
Implementation of the Android app „TERItaglich“  
The app supports people having multiple sclerosis (MS) and are treated with a therapeutic of the company Genzyme:

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- Reminder of taking a pill at a scheduled time. The alarm is shown inside the app, if it is running in the foreground, otherwise an Android notification is created. The alarm sounds can be changed.
- The calendar shows clearly which pills have been taken and which have not been taken.
- Appointments can be scheduled with a reminder. This also includes repeated appointments. The appointments can be exported into a PDF document.
- Consultation-hours can be prepared and exported into a PDF document.
- A recipe reminder alerts the user, when the pills will be used up soon.
- A knowledge section contains information about MS and the treatment and users can lookup medical terms.
- Implementation of a „Swipe to delete“ functionality

01/2014 – 04/2014

- Implementation of new features for the Android app “AsthmaApp”.
- Implementation of tools for the merchandise management system of a tyre merchant and implementing interfaces to B2B platforms (C++, Boost, POCO, PHP, SOAP, MySQL and Firebird).

04/2013 – 01/2014

- Server and client game programming for Blue Byte GmbH. Implementation of enhancements for the online game “The settlers online“ (J2EE, AS3).
- Server programming for Blue Byte GmbH. Implementation of a new REST service for Anno Online (Java EE, Maven 3, Spring, Jersey, JAX-RS, JAXB, JUnit 4, MySQL, Tomcat, JBoss)
- Server-side programming for GFACE GmbH. Development of a Java back end system and implementation of the server-side game logic for an online game (Java EE, Spring, NoSQL, MySQL, Hibernate Validation, Maven 3, JUnit 4).
- Implementation of tools for the merchandise management system of a tyre merchant and implementing interfaces to B2B platforms (C++, Boost, POCO, PHP, SOAP, MySQL and Firebird).
- Implementation of new features for the Android app “AsthmaApp“. These include push notifications, when the pollen concentration exceeds a threshold.

05/2012 – 04/2013

- Server-side programming for GFACE GmbH. Development of a Java back end system and implementation of the server-side game logic for an online game (Java EE, Spring, NoSQL, MySQL, Hibernate Validation, Maven 3, JUnit 4).

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	<ul style="list-style-type: none"> <li>- Implementation of tools for the merchandise management system of a tyre merchant and implementing interfaces to B2B platforms (C++, Boost, POOCO, PHP, SOAP, MySQL and Firebird).</li> <li>- Implementation of new features for the Android app "AsthmaApp".</li> </ul>
03/2012 – 05/2012	Porting the german iOS App "AsthmaApp" to Android 2.3. This app helps people to keep track of their asthmatic problems and provides a forecast for the intensity of pollen.
03/2012	Implementation of new features for a released iPad app. This app allows reading the issues of the german areospace magazine "roger-Luftfahrtmagazin" on the iPad (iOS 5, Objective-C)
11/2011 – 2/2012	Maintenance and enhancements of a J2EE web application for unitb technology using Seam, JBPM, Hibernate and Oracle.
12/2011	Implementation of an interface from the merchandise management system of a tyre merchant to the B2B platform „tyre24.de“ using C++ (Windows), Boost, POOCO, PHP, SOAP, MySQL and Firebird.
08/2011 – 10/2011	Programming services for Gameforge Productions GmbH for the previously developed MMORPG (J2EE, Hibernate, Spring, JBOSS Seam, Apache Commons).
10/2009 – 08/2011	<p>Co-foundation and administration of business of Inflammables GmbH.</p> <p>Server-side development of the MMORPG „Hellbreed“ in Java using J2EE, Hibernate, Spring, JBOSS Seam, Apache Commons, JMeter.</p> <p>Responsible for conception and programming of the game server and back end. Using the back end, the game designers could modify the values of the complex role playing rules for weapons, armors, spells, special abilities and loot. The modified values could be tested immediately in the game.</p> <p>An item generator was used to calculate the properties of generated items on the fly. Depending on the value and calculatd properties a fitting name was generated using name fragments. The better the item was, the more parts had the generated name.</p> <p>To make the replay of already discovered locations more interesting the monster values where increased or monsters where replaced by stronger variants of their kind, depending on the level and number of players in the area.</p>
04/2007 – 12/2008	Co-Foundation and administration of business of Gametank GmbH.

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Server-side development of the MMORPG „Zaar“ in Java using J2EE, Hibernate, Spring, Eclipse RAP, Apache Commons, JMeter, Grinder).

Responsible for conception and programming of the game server and backend. Using the back end, the game designers could change the values of the complex role playing rules for weapons, armors, spells and loot. The changed values could be tested immediately in the game.

The back end could also be used to create and modify quests.

Conception and administration of the corresponding server farm.

10/2006 – 03/2007

Software development for compNETCAD. A platform for educational video streams has been created, so that teachers could upload the videos and students could watch the videos as streams. The uploaded videos were converted into the FLV format using ffmpeg.

Students could browse a video gallery and teachers were able to activate, deactivate and delete videos.

The streaming was done by a Flash-SWF that was created on the fly by a PHP script via MING.

The portal was implemented using PHP and MySQL on Redhat Enterprise Linux.

Implementation of an accounting plugin for the SIP IP-PBX-server from brekeke in Java. The accounting data was stored in a MySQL database and could be browsed with a front end programmed in PHP.

A Design & Development specification for Airbus was created using Enterprise Architect as UML tool.

02/2006 – 09/2006

Development of web services for ComBOTS AG using Java (J2EE).

One web service was responsible for handling the installation and automatic update process of their product called ComBOTS (aka client). The client consisted of multiple components that could be updated individually, when a new version of the component was released. On startup the client sends its version to the service and the service checks which files of the components were modified and need to be updated. This was implemented using version specific ZIP files that were dynamically created on demand and cached. So when a client connects with a version number and a corresponding ZIP file does not exist in the cache, it is automatically created, otherwise the cached one is being sent to the client.

Another web service created personalized Installer.exe files.

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The architecture of the web services was designed so that modifications of configuration parameters were taken into account immediately without the need to restart the service. The parameters could be modified using JMX or by editing the configuration files.

Used technologies:

Eclipse, Maven 1, Maven 2, Jakarta Commons, JAXB, JMX, Oracle, Servlets, Spring, Subversion, Tomcat, XML, Windows and Suse Linux Enterprise.

10/2005 – 02/2006

Software development for Maguro oHG. Extension of the product NetDoc server. This product allows the documentation of local network structures and logged in computers based on Active Directory. The should be extended to support laptops: Every time a laptop starts up it should create a XML file via VBScript that contains the current state of the laptop like the installed software, bios-version, attached hardware, etc. As soon as the laptop is connected to the local network it should deliver the created XML files to a web service that stores the data in a MS-SQL database. The web service was programmed in C# with Microsoft Visual Studio 2003 .Net used as IDE.

05/2005 – 09/2005

Development of a new SUSHI release. The Java multi user server SUSHI was extended to allow applications and games to be written in Flash, Flash light, J2ME and J2SE. SUSHI could then be extended using JavaScript via Mozilla's Rhino. Some tools like a proxy and integration of SUSHI as a Windows service where programmed in C and C++. Used technologies: Ant, Eclipse, Kdevelop, NetBeans, Perl, Subversion, Visual Studio 2003 .Net, Xcode, XML. The product was developed using MacOS X, Windows and Linux.

03/2005 – 05/2005

The product SUSHI was extended to run on a clustered Linux system. The aim was to have at least 20.000 concurrent users distributed over 7 servers. Servers could be added and removed dynamically and the cluster handled the synchronization automatically. This was a contract work for gaia-online.

10/2004 – 03/2005

Development of a portal system to sell mobile content like Java games and ring tones for webfact GmbH. My part in this project was to parse XML-feeds from companies that provide mobile content and to correlate the content with compatible cell phones, delivering the content to the phones using corresponding gateways and implement the payment via PayPal, PremiumSMS and T-Online SAM. This system was used for the MTV format „Streetlive“. Used technologies: MySQL, PHP, SOAP, XPATH.

08/2004

Foundation of the company "Rawfish-Software GbR Acker, Sonntag" to distribute the self developed multiuser server SUSHI (<http://www.rawfish-software.com>)

S T E F A N   S O N N T A G

W E S E R S T R .   3 5   /   1 0 2 4 7   B E R L I N

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10/2003	Foundation of the company “Tier-Star Agentur Bönisch, Sonntag und Stepanow GbR” to place animals in movies, commercials and events. Implementation of the database driven homepage ( <a href="http://www.tier-star.de">http://www.tier-star.de</a> )
01/2001 –	Decision to work as a full time freelance software developer and system administrator. Cancellation of the part time work
01/2000 – 01/2001	Part time work as a software developer and system administrator at xmachina GmbH and developing software as a freelancer
09/1999 – 01/2000	Freelance software development for the company xmachina GmbH
05/1997 – 07/1999	Student job at IBM in Heidelberg. Software development in Perl and Java

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## Study

03/1993 – 01/2000

Study of Medical Informatics at the university Heidelberg and the technical college Heilbronn with the main subject biological signal- and image processing. Finished with the degree “Diplom-Informatiker der Medizin”.

The final thesis was accomplished at the german research center. The work is part of a system for the planning of the resection of liver tumors. The aim is to minimise the removal of healthy liver tissue. My task was to acquire a symbolic representation of the vessel trees and the tumor by analysing three dimensional CT-/MR-images of the liver. The result can be visualised in 3D and the surgeon is able to plan the operation. The work was performed using C/C++

(<http://mbi.dkfz-heidelberg.de/mbi/projects/liver/index.html>)

## Temporary Job

02/1993 – 03/1993 Temporary job at the computer store DoWa in Mannheim

## Civil service

11/1991 – 01/1993

Civil service in the protestant welfare centre in Hemsbach

## School

1984 – 1991

Gymnasium in Hemsbach finished with the degree “Allgemeine Hochschulreife”

1982 – 1984

Carl-Enlger Realschule in Hemsbach

1978 – 1982

Goethe-Grundschule in Hemsbach

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