StefanKapferer

Software Engineer



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languages german mother tongue english fluency

interests

software engineering software architecture and design service-oriented architectures microservices domain-driven design object-oriented analysis and design concepts of object-oriented programming java

experience

05-09 2018 Ergon Informatik AG

Internship in Software Engineering

- Implementation of business web application in the real estate industry
- Implementation and maintenance of build- and testing platforms
- Conducting customer training and a requirements engineering workshop

Used technologies and frameworks: HTML, CSS, JS, Freemarker, Java, Magnolia CMS, Gradle, Maven, Ansible

2014-2017 Adcubum AG

Software Engineer Professional (part-time: 60%)

- Design and implementation of tools to support developers (Eclipse plugins, command line tools, etc.)
- Development and realization of concepts concerning CI/CD
- Development, operation and maintenance of 'adcubum SYRIUS' build and it's continuous integration environment with Gradle and Jenkins
- · Development, integration and operation of software documentation tools
- Classic software engineering tasks with Java and J2EE
- · Documentation of architecture and design
- Supporting the migration from SVN to GIT
- Supporting developers regarding IDE (Eclipse), Build (Gradle), SCM (Git), Continuous Integration, etc.

2012-2013 Adcubum AG

St. Gallen

Zurich

St. Gallen

Software Engineer

Product development (adcubum SYRIUS):

- Development of new features and enhancements in the module 'Bestandes-/Vertragsverwaltung'
- Creation of SQL scripts for database migration (Oracle DB)
- Architecture optimization for business processes within the module
- Supporting software quality assurance processes

Used systems and technologies: Java, JEE, Eclipse, SVN, Oracle SQL, XML, Linux

2011-2012 **swoffice ag**

Teufen

Software Developer Java

- Product development (CRM solution)
 - Testing and operating solution (cloud-based solution)
 - · Collaboration with customers in multiple projects

Technologies: Java, JavaFX, Spring Framework, Apache Lucene, PostgreSQL

2008-2011 clavis IT ag

Herisau

Software Developer

- Development of solution concepts
- Specification and design of solutions in direct collaboration with customers
- Implementation of solutions based on the following technologies, frameworks and products: IBM Lotus Notes/Domino, Liferay Portal, Java/JEE (Tomcat and WebSphere Express), Web technologies (CSS, JS, HTML, XML), Webservices
- Testing and documentation
- Supporting customers with operating implemented solutions
- · Support and train apprentices

2004-2008 clavis IT ag

Herisau

Apprenticeship in informatics (application development)

Software development using Java, Lotus Notes/Domino, and web technologies

education

2018–2020 M.Sc. in Engineering

	service-oriented interfaces and architectures, and Domain-driven Design (DDD) aiming to strengthen personal knowledge in software architecture. The open source tool Context Mapper is a result of these projects.
2017-2018	Completed 21 credits towards a M.Sc. in Computer Science Completed the following courses: Algorithms and Data Structures, Theoretical Computer Science, Linear Algebra
2013-2017	B.Sc. in Computer Science University of Applied Sciences of Eastern Switzerland (HSR FHO) Developed a concept and prototypic implementation for an architectural refactoring of the data access security based on attribute-based access control (ABAC) in a standard software for the insurance sector.
2009-2012	Advanced Federal Diploma of Higher Education (HF) in Computer Science ZbW Concept for a "State of the art Java development environment with Continuous Integration (CI)" and implementation in a case study project.
2004-2008	Apprenticeship in informatics (application development)clavis IT agFederal Diploma of Vocational Education and Training (EFZ)
papers a	and publications
2019	Service Decomposition as a Series of Architectural Refactorings Architectural Refactorings (ARs) derived from Decomposition Criteria (DCs) compiled from literature and own experience. Implemented as code refactorings for the Context Mapper tool.
2019	Empirical Research in Software Engineering Seminar paper at HSR
	Scientific research strategies applied to software engineering.
2018	A Domain-specific Language for Service Decomposition A formal approach to strategic Domain-driven Design (DDD) and service decomposition implemented in the Context Mapper open source tool.
2018	A Domain-specific Language for Service Decomposition A formal approach to strategic Domain-driven Design (DDD) and service decompos-

Focusing on Information and Communication Technologies in the

Conducted several research projects on the topics service decomposition, (micro-)

Software and Systems Master Research Unit

University of Applied Sciences of Eastern Switzerland (HSR FHO)

talks

2016

2019 **Context Mapper: DSL and Tools for Domain-Driven Service Design**Bounded context modeling and microservice decomposition

(micro-)service-oriented architecture.

Bounded Context (DDD) or microservice.

"Architectural Refactoring der Data Access Security"

Concept and prototypic implementation for attribute-based access control in a

Extracting the data access security of a monolithic application into a separate

Semester thesis at HSR