

# Profile and project history

Englisch 

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# Willingness to travel / availability in time and space

Preferably conurbations in southern Germany with train connections.: Maximum 80% on site.

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## Skills

### Legend

- ★☆☆☆ *basics or a little rust*
- ★★☆☆ *advanced knowledge*
- ★★★☆☆ *profound knowledge*
- ★★★★★ *very experienced*

### Language skills

- German: mother tongue
- Englisch: ~B2

### Products and tools

- Ansible: ★★★★★
- Ansible tower: ★☆☆☆☆
- Apache: ★☆☆☆☆
- Artifactory: ★☆☆☆☆
- Atlassian confluence: ★★☆☆☆
- Atlassian JIRA: ★☆☆☆☆
- Atom IDE: ★☆☆☆☆
- AWX: ★☆☆☆☆
- Azure: ★☆☆☆☆
- Bootstrap: ★☆☆☆☆
- Software containerization: ★★★★★
- Deb package manager: ★☆☆☆☆
- Dracut: ★☆☆☆☆
- Embedded-systems: ★☆☆☆☆
- Git: ★★☆☆☆

- GitLab CI runner: ★★☆☆
- GitTea / Gogs: ★★☆☆
- Grafana: ★★☆☆
- IoT: ★★☆☆
- Jenkins (pipeline): ★★☆☆
- Kubernetes: ★★☆☆
- KVM: ★★☆☆
- Mercurial: ★☆☆☆
- Microsoft visual code: ★☆☆☆
- Nexus: ★☆☆☆
- NFS: ★★☆☆
- Nginx: ★★☆☆
- OpenShift: ★☆☆☆
- OpenStack: ★☆☆☆
- Ptxdist: ★☆☆☆
- Puppet: ★☆☆☆
- PXE: boot ★☆☆☆
- REST: ★☆☆☆
- RPM package manager: ★☆☆☆
- RunDeck: ★☆☆☆
- Saltstack: ★☆☆☆
- SVN: ★☆☆☆
- Terraform: ★☆☆☆
- Xwiki: ★☆☆☆

## Concepts and patterns

- Bare metal bootstrapping (Linux): ★★☆☆
- CI/CD concepts: ★★☆☆
- DevOps concepts: ★★☆☆
- Kanban: ★☆☆☆
- Object-oriented programming: ★★☆☆
- PKI (Public-Key-Infrastruktur): ★☆☆☆
- Revers proxy: ★☆☆☆
- Scrum: ★★☆☆
- "You build it, you run it": ★★☆☆
- Product evaluation: ★★★★★
- Proof of concepts: ★★★★★
- Reengineering: ★★★★★
- Transformation and extension: ★★★★★

## Operating systems

- CentOS: ★★★★★
- Debian: ★★★★★
- Red Hat Enterprise Linux: ★★★★★
- SUSE Linux Enterprise Server: ★★☆☆
- Ubuntu: ★★★★★

## Programming languages and tools

- AWK: ★☆☆☆
- Bash: ★★☆☆
- Bottle: ★☆☆☆
- C# (*Only under Linux*): ★☆☆☆
- C/C++: ★☆☆☆
- C/C++ Web- and GUI-programming: ★☆☆☆
- Cross-Compiler: ★☆☆☆
- GNU build system: ★☆☆☆
- GNU compiler collection: ★☆☆☆
- GNU debugger: ★☆☆☆
- Go/Golang: ★☆☆☆
- Google Test (C++): ★☆☆☆
- Groovy (*in context of Jenkins*): ★☆☆☆
- JavaScript: ★☆☆☆
- Make: ★☆☆☆
- Perl: ★☆☆☆
- PHP: ★☆☆☆
- Python: ★★☆☆
- Qt4: ★☆☆☆
- Qt5: ★☆☆☆
- WebPy: ★☆☆☆
- Regex: ★☆☆☆

## Databases

- CouchDB: ★☆☆☆
- InfluxDB: ★☆☆☆
- MariaDB: ★☆☆☆
- MySQL: ★☆☆☆
- PostgreSQL: ★☆☆☆
- SQLite: ★☆☆☆

# Project history

## Replacement of a Docker Swarm cluster by Kubernetes

<b>Time period</b>	05/2020 - 08/2020
<b>Company</b>	Fonds Finanz
<b>Industry</b>	Insurance and finances
<b>Team size</b>	2-7 people
<b>Role/Position</b>	DevOps Engineer / Consultant
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Analysis &amp; optimization of the current system landscape and testing of alternative infrastructures</li><li>• Support in the improvement of development processes and runtime environments</li><li>• Introduction of Ansible</li><li>• Proof of concept with Kubernetes (k3s) on VMWare (on-premises)<ul style="list-style-type: none"><li>◦ Rollout and reset of the Kubernetes cluster via GitLab CI Runner and Ansible</li><li>◦ Introduction of Helm Charts</li><li>◦ Integration of an NFS-Storag into the Kubernetes-Cluster</li><li>◦ Presentations of the concept</li></ul></li><li>• Creation of concepts and decision templates for the migration to a hybrid cloud infrastructure<ul style="list-style-type: none"><li>◦ Planning of the migration path</li><li>◦ Creation of security concepts (according to BSI) with consideration of the DSGVO</li><li>◦ Creation of a PKI concept</li><li>◦ Definition of processes and standards</li><li>◦ Presentations of the concept</li></ul></li></ul>
<b>Tools/Products</b>	Ansible, Azure Cloud (AKS), CentOS, CI-Runner, Confluence, Docker, draw.io, GitLab, Helm Chart, Hybrid cloud, Kubernetes, K3S, markdown, NFS, PKI, Terraform, UML, VMWare

## Development and support of a high performance CI/CD infrastructure tailored to the needs of the client

<b>Time period</b>	02/2020 - 04/2020
<b>Company</b>	Basler AG (Hamburg)
<b>Industry</b>	Manufacture of special cameras
<b>Team size</b>	2-6 people
<b>Role/Position</b>	DevOps Engineer / Consultant
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Recording and analysis of the requirements from project teams</li><li>• Analysis of performance problems in an Jenkins build farm</li><li>• Evaluation of improvement options and alternatives to the existing Jenkins build farm</li><li>• Creation of a proof of concept with a multi-master BuildBot setup in the Azure Cloud (AKS)</li><li>• Creation of a decision template for the management</li><li>• Creation of workshop documents with examples</li><li>• Integration and creation Linux agents for the Team Foundation Server</li><li>• Restructuring of Ansible Playbooks according to best practices and expansion</li><li>• Knowledge transfer by pair programming</li></ul>
<b>Tools/Products</b>	Ansible, Photon OS, Jenkins, Team Foundation Server, Ubuntu, Grafana, Prometheus, markdown, draw.io, UML, Docker, Kubernetes, Terraform, Azure Cloud, AKS

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## Evaluation of OpenStack as service

<b>Time period</b>	10/2019 - 12/2019
<b>Company</b>	Widas Technologie Services GmbH
<b>Industry</b>	Banking and trade
<b>Team size</b>	1-3 people
<b>Role/Position</b>	Senior System Engineer - DevOps / site reliability
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Research of OpenStack providers</li></ul>

- Evaluation of OpenStack as a Service with a proof of concept (Rollout of a DC/OS Cluster with Ansible playbooks)

**Tools/Products**

OpenStack, Ansible, DC/OS, Markdown, Office365, GitLab, CentOS Linux

## Review of Ansible playbooks

**Time period**

10/2019 - 12/2019

**Company**

Widas Technologie Services GmbH

**Industry**

Banking and trade

**Team size**

1-4 people

**Role/Position**

Senior System Engineer - DevOps / site reliability

**Tasks**

- Reviews and expansion of existing Ansible Playbooks
- Introduction of encryption of sensitive data in Playbooks with Vault encryption

**Tools/Products**

Ansible, Vault, GitLab, Docker, Nexus, CentOS Linux

## Migration of a C++ server application

**Time period**

06/2019 - 09/2019

**Company**

msg Systems AG

**Industry**

Automotive

**Team size**

2-3 people

**Role/Position**

Senior IT Consultant - applied technology research

**Tasks**

- Migration of a legacy c++ server application from bare metal to bare metal and from bare metal to virtual machine
- Evaluation of tools for builds and debugging over remote, with a proof of concept
- Support of customer communication on technical level.
- Troubleshooting of issues

**Tools/Products**

Netbeans, FullSync, C/C++, GDB, Perl, Make, RPM,  
SLES/OpenSUSE Linux

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## Market analyses and evaluations of container orchestration tools

<b>Time period</b>	04/2019 - 09/2019
<b>Company</b>	msg Systems AG
<b>Industry</b>	Non-specific
<b>Team size</b>	1-3 people
<b>Role/Position</b>	Senior IT Consultant - applied technology research
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Research, classification and presentation of Kubernetes products from different suppliers and projects.</li><li>• This included attending a three-day training course: <i>Red Hat OpenShift Administration I (DO280)</i>.</li><li>• Experiments with the internal private cloud and on VirtualBox.</li><li>• Presentation the results via whitepaper, short movie and in person.</li></ul>
<b>Tools/Products</b>	Kubernetes, OpenShift, VirtualBox, Azure Cloud, CentOS Linux

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## Provisioning of project infrastructure based on Ansible

<b>Time period</b>	06/2019 - 09/2019
<b>Company</b>	msg Systems AG
<b>Industry</b>	Non-specific
<b>Team size</b>	1 people
<b>Role/Position</b>	Senior IT Consultant - applied technology research
<b>Tasks</b>	Analysis, conceptual design, proof of concept and presentation of a provisioning of project infrastructure based on Ansible playbooks.
<b>Tools/Products</b>	Ansible, Bash, Docker, Reverse proxy, Private cloud, AWS, Azure, Debian Linux



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## Further development of container based generic project infrastructure

<b>Time period</b>	01/2019 - 09/2019
<b>Company</b>	msg Systems AG
<b>Industry</b>	Non-specific
<b>Team size</b>	2-4 people
<b>Role/Position</b>	Senior IT Consultant - applied technology research
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Management of transformation processes, troubleshooting, customer support</li><li>• Reverse engineering of undocumented code and tools</li><li>• Completion of documentation</li><li>• Peer programming</li></ul>
<b>Tools/Products</b>	Bash, Docker, Debian packaging, Deb repository, Docker registry, Supervisor, Nginx, Debian Linux

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## Conversion of a Jenkins setup into the new pipeline functionality

<b>Time period</b>	02/2019 - 04/2019
<b>Company</b>	msg Systems AG
<b>Industry</b>	Automotive
<b>Team size</b>	1-4 people
<b>Role/Position</b>	Senior IT Consultant - applied technology research
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Familiarized myself with the subject of Maven, Groovy, declarative pipeline syntax and scripted pipeline syntax</li><li>• Transferred knowledge to the team members.</li><li>• Conversion of a Jenkins setup into the new pipeline functionality</li></ul>
<b>Tools/Products</b>	Jenkins, Groovy, Java, Maven, Payara, OpenShift, Bash

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## Reimplementation of a PKI in an IoT environment

<b>Time period</b>	07/2018 - 12/2018
<b>Company</b>	noris network AG
<b>Industry</b>	Automotive / IoT
<b>Team size</b>	6-9 people
<b>Role/Position</b>	Senior IT System Engineer - agile operations / setup owner
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Familiarized myself with the subject of PKI and Kubernetes</li><li>• Consulting, presales, project planning, management of transformation processes in preparation for the conversion to Kubernetes</li></ul>
<b>Tools/Products</b>	EJBCA, HSM (Hardware security module), Kubernetes, Bastion Host, CentOS Linux

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## Reengineering of a PKI (Public Key Infrastructure) in an IoT (Internet of Things) environment

<b>Time period</b>	11/2017 - 12/2018
<b>Company</b>	noris network AG
<b>Industry</b>	Automotive / IoT
<b>Team size</b>	4-7 people
<b>Role/Position</b>	Senior IT System Engineer - agile operations / setup owner
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Responsibility for reengineering and dokumentation of legacy server setup with 100 machines</li><li>• Implementation and documentation of standard operations processes</li><li>• Troubleshooting, analysis and monitoring of standards and processes</li><li>• Customer reports</li><li>• Out-of-date Puppet instances replaced with Ansible</li><li>• Second level support</li></ul>

**Tools/Products**

Ansible, Puppet, VMware, EJBCA, RADIUS, Payara, ActivMQ, Foreman, Graylog, MariaDB Galera Cluster, Docker swarm, CentOS Linux

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## Containerisation of portal application and microservices

**Time period**

08/2015 - 07/2017

**Company**

meteocontrol GmbH

**Industry**

Energy / IoT

**Team size**

2-6 people

**Role/Position**

DevOps Engineer

**Tasks**

- Internal applications packed in docker container
- Evaluation of container orchestration tools
- Setting up an internal docker registry with Artifactory
- Create an automated build and deployment process with GitLab CI runner

**Tools/Products**

PHP, JavaScript, GitLab CI Runner, Artifactory, DNS, Reverse proxy, Floating IPs, NFS, Ansible, Keepalived, Docker Swarm, OpenShift, Kubernetes, Docker, Puppet, Debian Linux

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## Implement an embedded build environment in Docker Container

**Time period**

10/2015 - 06/2016

**Company**

meteocontrol GmbH

**Industry**

Energy / IoT

**Team size**

1-2 people

**Role/Position**

DevOps Engineer

**Tasks**

- Analysis of incompletely documented C/C++ code, build tools and build scripts
- Documentation of interfaces and functionalities
- Adaptation of build scripts
- Creation of Dockerfiles
- Automation of container builds

- Presentation of results to team colleagues and heads of department

**Tools/Products**

Atlassian Confluence, C/C++, Bash, Make, Eclipse, Ptxdist, Debian, Artifactory, Docker, Jenkins, GitLab CI Runner, Embedded Linux, Cross compiler, Debian Linux

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## Analyzing of legacy code

**Time period**

02/2015 - 06/2015

**Company**

MELOS GmbH

**Industry**

Health

**Team size**

1-4 people

**Role/Position**

Developer

**Tasks**

- Analysis of partially 20 years old C/C++ code
- Documentation of interfaces and functionalities
- Creation of a REST concept
- Impl. of a WebClient with MVC-principle (with Python/Bottle)
- Impl. of a REST-Services with Queue-Management and concurrency (in Python/Bottle)
- Impl. of a REST-capable backend process in C++ (with Curl-Lib). Presentation of results

**Tools/Products**

Bash, Python, Perl, Qt4, Qt5, C/C++, Bottle, Jenkins, Google Test, REST, Atlassian Confluence, openSUSE

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## Implementation of a RPM-based fully automated rollout process

**Time period**

**Company**

ATIX AG

**Industry**

Trade fair

**Team size**

1-2 people

**Role/Position**

Senior IT Consultant / Developer

**Tasks**

- Implementation of a RPM-based fully automated rollout process for a shop system (Magento)

- Creation of the concept, RPM templates and automatic build scripts
- Setup and integration of server components
- Communication, coordination and agreement with customers and service partners
- Documentation. Execution of the test and acceptance process

**Tools/Products**

CentOS Linux, RHEL, Jenkins, YUM, RPM, Bash, PHP, Apache, MySQL, Mercurial, Magento

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## Introduction of a configuration management

**Time period**

01/2014 - 06/2014

**Company**

ATIX AG

**Industry**

Trade fair

**Team size**

1-2 people

**Role/Position**

Senior IT Consultant / Developer

**Tasks**

- Familiarized myself and evaluated in SaltStack.
- Proof of concept
- Implementation of SaltStack
- Documentation and workshops carried out

**Tools/Products**

SaltStack, CentOS, RHEL, Git, Apache, MySQL, iptables, sftp

## Webfrontend for a telephone system to display the employees in conversation

**Time period**

01/2014 - 06/2014

**Company**

ATIX AG

**Industry**

Non-specific

**Team size**

1 people

**Role/Position**

Senior IT Consultant / Developer

**Tasks**

- Familiarized myself with the subject of RubyOnRails
- Analysis of the interfaces of the telephone system.

- Implementation and rollout of a webfrontent for a telephone system to display the employees in conversation
- Reimplementation with Node.js and Bootstrap (CSS-Lib).
- Using of a public interface of Deutsche Bahn to show next available train.

**Tools/Products**

REST, Raspberry PI, RubyOnRails, Node.js, Bootstrap, JavaScript, Asterisk/Starface-API, Linux

## Automation and change management for a website

**Time period**

01/2011 - 08/2012

**Company**

ATIX AG

**Industry**

Non-specific

**Team size**

1 people

**Role/Position**

IT Consultant / Developer

**Tasks**

- Evaluation of possible solutions
- Consulting and support for automation, deployment and configuration management
- Change management and setup support
- Besides autodidactic preparation for the IHK exam as IT specialist - application development (in german: "Fachinformatiker - Anwendungsentwicklung").

**Tools/Products**

Zope, CentOS Linux, Plone, Piwik, MySQL, Apache, RPM Package Manager, RPM / Deb Builds