Profile and project history

Englisch 🇬🇧

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Willingness to travel / availability in time and space

Preferably conurbations with train connections (all over germany).: Maximum 80% on site.

Skills

Legend

★☆☆☆   *basic*s 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 (pipieline): ★★☆☆
- Kubernetes: ★★☆☆
- KVM: ★★☆☆
- Mercurial: ★☆☆☆
- Microsoft visual code: ★☆☆☆
- Nexus: ★☆☆☆
- NFS: ★★☆☆
- Nginx: ★★☆☆
- OpenShift: ★☆☆☆
- 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: ★★☆☆
- Public-Key-Infrastruktur (PKI): ★★★☆
- 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: ★☆☆☆

Public Clouds

- Azure: ★★☆☆
- AWS: ★☆☆☆
- GCP (Google): ★☆☆☆
- OpenStack: ★☆☆☆

Project history

Replacement of a Docker Swarm cluster by Kubernetes

Time period	05/2020 - 02/2021
Company	Fonds Finanz
Industry	Insurance and finances
Team size	2-7 people
Role/Position	DevOps Engineer / Consultant
Tasks	- Analysis & optimization of the current system landscape and testing of alternative infrastructures - Support in the improvement of development processes and runtime environments - Introduction of Ansible - Proof of concept with Kubernetes (k3s) on VMWare (on-premises) - Rollout and reset of the Kubernetes cluster via GitLab CI Runner and Ansible - Introduction of Helm Charts - Integration of an NFS-Storag into the Kubernetes-Cluster - Presentations of the concept - Creation of concepts and decision templates for the migration to a hybrid cloud infrastructure - Planning of the migration path - Creation of security concepts (according to BSI) with consideration of the DSGVO - Creation of a PKI concept - Definition of processes and standards - Presentations of the concept
Tools/Products	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

Time period	02/2020 - 04/2020
Company	Basler AG (Hamburg)
Industry	Manufacture of special cameras
Team size	2-6 people
Role/Position	DevOps Engineer / Consultant
Tasks	- Recording and analysis of the requirements from project teams - Analysis of performance problems in an jenkins build farm - Evaluation of improvement options and alternatives to the existing Jenkins build farm - Creation of a proof of concept with a multi-master BuildBot setup in the Azure Cloud (AKS) - Creation of a decision template for the management - Creation of workshop documents with examples - Integration and creation Linux agents for the Team Foundation Server - Restructuring of Ansible Playbooks according to best practices and expansion - Knowledge transfer by pair programming
Tools/Products	Ansible, Photon OS, Jenkins, Team Foundation Server, Ubuntu, Grafana, Prometheus, markdown, draw.io, UML, Docker, Kubernetes, Terraform, Azure Cloud, AKS

Evaluation of OpenStack as service

Time period	10/2019 - 12/2019
Company	Widas Technologie Services GmbH
Industry	Banking and trade
Team size	1-3 people
Role/Position	Senior System Engineer - DevOps / site reliability
Tasks	Research of OpenStack providers

- Evaluation of OpenStack as s 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

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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

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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 issus

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

Market analyses and evaluations of container orchestration tools

Time period	04/2019 - 09/2019
Company	msg Systems AG
Industry	Non-specific
Team size	1-3 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	- Research, classification and presentation of Kubernetes products from different suppliers and projects. - This included attending a three-day training course: *Red Hat OpenShift Administration I (DO280)*. - Experiments with the internal private cloud and on VirtualBox. - Presentation the results via whitepaper, short movie and in person.
Tools/Products	Kubernetes, OpenShift, VirtualBox, Azure Cloud, CentOS Linux

Provisioning of project infrastructure based on Ansible

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

Further development of container based generic project infrastructure

Time period	01/2019 - 09/2019
Company	msg Systems AG
Industry	Non-specific
Team size	2-4 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	- Management of transformation processes, troubleshooting, customer support - Reverse engineering of undocumented code and tools - Completion of documentation - Peer programming
Tools/Products	Bash, Docker, Debian packaging, Deb repository, Docker registry, Supervisor, Nginx, Debian Linux

Conversion of a Jenkins setup into the new pipeline functionality

Time period	02/2019 - 04/2019
Company	msg Systems AG
Industry	Automotive
Team size	1-4 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	- Familiarized myself with the subject of Maven, Groovy, declarative pipeline syntax and scripted pipeline syntax - Transferred knowledge to the team members. - Conversion of a Jenkins setup into the new pipeline functionality
Tools/Products	Jenkins, Groovy, Java, Maven, Payara, OpenShift, Bash

Reimplementation of a PKI in an IoT environment

Time period	07/2018 - 12/2018
Company	noris network AG
Industry	Automotive / IoT
Team size	6-9 people
Role/Position	Senior IT System Engineer - agile operations / setup owner
Tasks	- Familiarized myself with the subject of PKI and Kubernetes - Consulting, presales, project planning, management of transformation processes in preparation for the conversion to Kubernetes
Tools/Products	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

Time period	11/2017 - 12/2018
Company	noris network AG
Industry	Automotive / IoT
Team size	4-7 people
Role/Position	Senior IT System Engineer - agile operations / setup owner
Tasks	- Responsibility for reengineering and dokumentation of legacy server setup with 100 machines - Implementation and documentation of standard operations processes - Troubleshooting, analysis and monitoring of standards and processes - Customer reports - Out-of-date Puppet instances replaced with Ansible - Second level support

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

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, Floting IPs, NFS, Ansible, Keepalived, Docker Swarm, OpenShift, Kubernetes, Docker, Puppet, Debian Linux

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

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

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

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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

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Technical article

Linux-Magazin 03/2021

Title:
PKI-Workshop, Teil 2: PKI mit Automatisierung und Infrastructure as Code

URL:
https://www.linux-magazin.de/ausgaben/2021/03/pki/

Year: 2/2021

Linux-Magazin 02/2021

Title:
PKI-Workshop, Teil 1: Grundlagen der Public-Key-Infrastruktur

URL: https://www.linux-magazin.de/ausgaben/2021/02/pki-teil-1/

Year: 1/2012

Entwickler Magazin 5.14

Title:
Webprogrammierung mit C++ - Welches Framework darf es sein?

URL:
https://entwickler.de/online/welches-framework-darf-es-sein-114619.html

Year: 5/2014

Linux-Magazin 01/2014:

Title:
Webanwendungen in C++ mit Tntnet

URL:
http://www.linux-magazin.de/Ausgaben/2014/01/Tntnet

Year: 1/2014