

Curriculum Vitae

Personal details

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Occupational experience

06/2013 – today **Bank for International Settlements**, Senior Linux System Engineer, Team Lead

Primary responsibilities include design, implementation and maintenance of, and third-level support for, enterprise-class software and hardware within the Linux environment.

- Maintaining Red Hat 5, 6 and 7 Platform
- Automation through Ansible or Bash, Perl and Python scripts
- Configuration management using Puppet
- Developing kickstart scripts for the RH-Satellite environment
- Setup Control-M tasks
- Work with EMC VMAX and Netapp Storage systems
- Programming graphical web interfaces in HTML5, CSS, NodeJS
- Weekend work / OnCall
- 2nd/3rd Level Support
- HP Service Guard Cluster
- VMWare ESX environment
- HP Data Protector
- OpenShift / Kubernetes
- Technical team lead and budgeting

01/2013 – 12/2015 **Hogarthian Solutions**, Self Employed

Since 2013 I am self-employed working as a Unix/Linux specialist. For now I have worked for the same companies as before which are:

- Helsana: Unix (Solaris)/Linux (RHEL) System Engineer
- ZHAW: Linux (CentOS) System Engineer
- SG Private Bank: Solaris System Engineer
- Schreinerwerk Kaufmann AG: System Administrator

06/2010 – 12/2012 **Warex AG**, System Engineer

Within the supply of services company I was responsible for different customers mainly working with Solaris, RedHat Linux and Windows.

Projects:

Helsana AG as Linux / Solaris Engineer

- Migration from Solaris to RedHat Linux
- Shells scripting
- Administration of the RHEL Platform incl. various KVM systems
- Patchmanagement

- Automated installations
- 2nd / 3rd level Support
- Syslog Management
- Programming dynamic report websites
- Failure analysis

Helsana AG as a Windows System Engineer

- Installation and administration of over 400 Windows server systems
- Administration of the VMWare platform
- 2nd Level support for VMWare, Exchange 2010 and other windows services such as ADS.

Solaris Liveupgrade

- Liveupgrade for different customers to transition from Solaris 8 to 10
 - Patchupgrades within Solaris 10
 - Zoneupgrades
 - Migrations from UFS to ZFS
- 2nd / 3rd level engineering of Solaris and Linux
 - Installation of Oracle / IBM Server
 - Hardware upgrade

06/2008 – 06/2010

UBS AG, Solaris System Engineer

2nd level Support at the Sun Managed Service Team. The team manages ca. 300 servers and 35 Sun Cluster systems connected to HDS 9970, 9980 and 9990 SAN Storage, Cisco and Brocade switches. The systems are spread over the sites Zurich, London, New York, Singapore as well as Tokyo and are monitored 24x7 hours with an SLA of 99,999 %.

My responsibilities:

- In charge of patch management and Sun Alerts. Creating weekly analyses and reports of newest available patches.
- Managing Brocade SilkWorm 3800, 3900 und 4100 switches.
- Operating Sun Cluster 3.1 and 3.2 systems as well as solving problems in case of an outage.
- Buildup of a extensive CMDB database of all managed systems and applications based on SysSCAN data provided by CoreSoftware.
- Development of diverse scripts to analyze patch arrears, automate 1st level tasks and generating dynamic reports.
- Development of different websites such as displaying the CMDB content having a graphical interface to generate reports as well as managing Sun cases.
- Supporting / coaching 1st level employees
- Creating weekend work plans

10/2006 – 06/2008

AceTune AG & UBS AG, 1st Level Support

1st Level Support at the Sun Managed Service Team. Monitoring of 335 SUN systems as well as Break & Fix on different Sun Hardware.

My responsibilities:

- 24/7 Monitoring
- First analysis of software or hardware issues
- Hardware Break & Fix on different Sun Hardware such as v240, v490, SF 6800, SF6900, T2000, V1280 and E2900.
- Script programming to automate different tasks.

02/2003 – 07/2005

Lufthansa Systems FlightNav AG, System Administrator

Internship as a System administrator using Windows and Linux.

Education

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|-------------------|--|
| 09/2013 – 06/2017 | Bachelor's Degree in Computer Science, School of Engineering, Zurich University of Applied Sciences (ZHAW) |
| 08/2010 – 08/2011 | Vocational School |
| 03/2006 – 09/2006 | Boot camp and sergeant school of the Swiss Army |
| 07/2005 – 12/2005 | Attended a language school in Berkeley, CA USA |
| 08/2001 – 07/2005 | WISS IT School Main emphasis on Linux and Microsoft Windows |

Certifications

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|------|--|
| 2018 | Red Hat Certified Specialist in OpenShift Administration |
| 2018 | Red Hat Certified Specialist in Ansible Automation |
| 2018 | Red Hat Certified Specialist in Hybrid Cloud Management |
| 2018 | ITIL v3 Foundation |
| 2017 | RHCE – Red Hat Certified Engineer RHEL 7 |
| 2017 | RHCSA – Red Hat Certified System Administration RHEL 7 |
| 2012 | Oracle Linux Administrator Certified Associate |
| 2012 | RHCE – Red Hat Certified Engineer |
| 2012 | RHCSA – Red Hat Certified System Administration |
| 2011 | Oracle Database 11g Certified Implementation Specialist |
| 2007 | Sun Solaris Administrator II |
| 2007 | Sun Solaris Administrator I |
| 2005 | Cambridge Certificate in Advanced English (CAE) |
| 2005 | English Certification "Higher-Advanced" |

Language skills

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|---------|------------------------------|
| German | Mother tongue |
| English | Written and verbal very good |
| Italian | Verbal good |
| French | Basics |

Knowledge

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|-----------------------|--|
| Programming languages | Objective-C, Java, Python, F#, Perl |
| Script languages | CSH / SH / Bash, Korn Shell, Perl, Java Script, PHP, HTML5, CSS, LaTeX |
| Databases | MySQL, SQLite, Oracle, Postgres, MongoDB |
| Operating systems | RedHat Linux, Solaris 10/11, Windows |

Hobbies

| | |
|--------------|--|
| Scuba Diving | Leading GUE (Global Underwater Explorers) instructor in Switzerland. With over 1700 dives of experience in deep diving as well as cave diving. |
| Golf | Mid handicap player |

References

Sacha Dubois

Solution Architect, Red Hat
Phone: +41 79 418 13 34

Markus Zürcher

Director of UBS FX-IT Infrastructure
Phone: +41 44 239 55 93

Skill Matrix

| | |
|-----------------|---|
| Expert | Indicates that I have mastered all of the basics and most of the advanced features in this area. I currently consult with multiple project teams, educating, training, and managing others. Expect that I will create new and efficient areas of cross functional business development, that I will facilitate this skill as a corporate asset, and that I will continue to facilitate both my own experience with this skill as well as the experience of others, regardless of their skill level. |
| Skilled | Indicates that I currently use this skill on a daily basis, and that I have mastered the basics and some of the more advanced features. Expect that I will succeed as a team leader in this area, that I will investigate efficient ways to utilize this skill as both an individual and in a team environment, and that I will continue to advance my knowledge in this area further. |
| Familiar | Indicates that I currently use this skill with a consistent and successful level of proficiency. Expect that I will use this skill to succeed both as an individual and as part of a team and that, as I do so, my proficiency with this skill will advance further. |
| Novice | Indicates that I am skilled in the area. I currently use this skill and have mastered the basics and some of the more advanced features |
| Cursory | Indicates that I have a superficial level of knowledge, contact, or understanding of the skill. While I have had some professional experience, I do not use it in my daily work life. A significant amount of education and training is required for me to perform proficiently with this skill. |
| Retired | Indicates that I no longer use this skill. The number in this column represents the level at which I performed with this skill when I last used it. |

Development and Scripting

| Category | Name | Description | Experience | Level |
|------------------------------|---------------------|---|------------|-----------------|
| Scripting Languages | Shell Script | Deep knowledge in writing shell scripts for automation of daily tasks | 10 Years | Expert |
| | Sed / Awk | Deep knowledge in writing sed or awk scripts used together with shell scripts. | 10 Years | Expert |
| | Perl | Developed various scripts for automation | 5 Years | Skilled |
| | PHP | Used PHP to generate dynamic Websites based on different databases, developed a browser game | 7 Years | Retired |
| | Javascript | Building dynamic websites. Also using different frameworks such as Meteor, Angular JS, NodeJS. Most of my projects like caveconditions.com are programmed in JS using NodeJS or Meteor. | 7 Years | Expert |
| | HTML / CSS | Strong experience developing many different websites within the W3C standards and HTML5 | 7 Years | Expert |
| | LaTeX | Generating reports and documents | 3 Years | Skilled |
| Programming Languages | .NET | Programming FlightNav application modules such as Drag & Drop and Tree Views | 2 Years | Retired |
| | Objective-C | Programming different iPhone apps | 2 Years | Retired |
| | Java | Mostly learned and used in school during my studies. Programmed various tools as a school project. Programmed caveconditions.com in Java to learn the language. | 3 Years | Familiar |
| | C | Entry level knowledge reading and writing trivial code | 2 Years | Novice |
| | Python | Learned in school and used as the default language of all my newer scripts. | 2 Years | Novice |
| | F# / Haskell | Used for functional programming and my bachelor work | 2 Years | Novice |
| | Go | Only went through some tutorials but it is a desired skill to become proficient. | 1 Year | Cursory |
| Automation | Puppet | Puppet 3 and 4 for configuration management | 4 Years | Skilled |
| | Ansible | Automation and complex installations | 2 Years | Expert |
| Other | Testing | Most of my development is done test driven (Javascript and Java). | 3 Years | Skilled |
| | Jenkins | Able to install and configure Jenkins to automatically test and deploy new code | 3 Years | Skilled |
| | Clean Code | Familiar with clean code styles | 3 Years | Skilled |

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|--|--------------|---|---------|-----------------|
| | Scrum | Knowledge of Scrum process. Used it for various projects in School. | 2 Years | Familiar |
|--|--------------|---|---------|-----------------|

Operating System

| Category | Description | Experience | Level |
|--------------------------------|--|------------|----------------|
| Red Hat Linux | Deep experience with RHEL 4,5,6,7, Satellite Server, KVM, Containers, Kickstart | 9 Years | Expert |
| SUN Solaris (SunOS 5.x) | Deep experience in installing and configuration of a customized OS installation, based on partitions, SVM / DiskSuite, VxVM or ZFS boot and service customization. | 6 Years | Expert |
| Other Linux | Experience in Installation, configuration of diverse Linux distributions. (CentOS, Debian, Ubuntu, Gentoo) | 9 Years | Expert |
| Microsoft Windows | Experience in automated or manual installation of different Windows Operating Systems and Services. | 4 Years | Skilled |

Applications / Operating Software

| Category | Name | Description | Experience | Level |
|---------------------------|-------------------------------|---|------------|-----------------|
| High Availability | Sun Cluster 3.x | Maintenance of 32 cluster with total of 88 cluster nodes. | 3 Years | Skilled |
| | HP Service Guard | Installation, configuration and maintenance of Service Guard cluster | 5 Year | Expert |
| | Kubernetes | Managing Pods, Containers, Services. Running couple of projects in Google Cloud | 2 Year | Skilled |
| System Management | HPOV / OML | Installation and configuration, agent customization | 5 Years | Expert |
| | Big Sister | Installation, Configuration and managing Big Sister | 2 Years | Skilled |
| | Nagios XI | Installation and Configuration | 5 Years | Expert |
| Operation Software | VERITAS Volume Manager | Experience in managing Veritas volumes as well as do disk replacements | 3 Years | Skilled |
| | Solaris Volume Manager | Experience in creating and managing volumes as well as data recovery procedures | 4 Years | Expert |
| | Solaris ZFS | Installation, configuration and tuning | 3 Years | Skilled |
| | Linux LVM | Experience in creating and managing volumes as well as data recovery procedures | 6 Years | Expert |
| | RedHat Satellite | Installing, configuring, maintaining as well as enhance with scripting | 4 Years | Expert |
| Virtualization | Oracle Virtual Box | Experience in running VirtualBox on Linux, Windows, Solaris and MacOSx | 5 Years | Expert |
| | VMware | Used to virtualize Linux and Solaris on Windows, managing vCenter | 5 Years | Expert |
| | Solaris 10 Zones | Installation and configuration of Solaris zones | 4 Years | Skilled |
| | KVM | Installation, configuration and maintenance. Experience with failover scenarios and PTV migrations. | 4 Years | Skilled |
| | Containers | Installation and configuration of docker containers | 3 Years | Skilled |
| Database Systems | Oracle | Basic maintenance from OS Side as well as SQL and stored procedures | 2 Years | Familiar |
| | MySQL | Strong Experience installing and configuring MySQL Database as well as using SQL statements | 7 Years | Expert |
| | SqlLite | Experience installing and configuring SqlLite Database and using its SQL statements | 3 Years | Expert |
| | Postgres | Basic knowledge in installing, configuring and maintaining | 4 Years | Skilled |
| | MongoDB | Experience installing, managing noSQL Database as well as replications. | 5 Years | Expert |
| Cloud Solutions | Google Cloud | Creating and managing kubernetes cluster with docker containers | 1 Year | Familiar |
| | AWS | Using various website containers, S3 Storage | 1 Year | Familiar |
| | OpenShift | Running a complex OpenShift environment | 2 Year | Skilled |