**Application Documents**

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Curriculum Vitae

Personal Details

Maximilian Thoran

Born on December 15th, 1973

In Berlin-Neukoelln

Married, two children

German citizen

# Professional Experience

**2022 to present ITZBund**

**Solution Architect**

Design and implementation of enterprise range middleware and application automation.

Schlüsseltätigkeiten

* Planning and installation of Ansible Automation Platform
* Design of cross-department automation solutions
* Development of automation content for classical and containerized environments
* Support model design for Cloudera

**2021 to 6 / 2022 ITZBund**

**Solution Architect**

Solution design and implementation in a closed, highly security sensitive environment, including ID-Management, Monitoring, Release-Management, Intrusion Detection, Automation und Load balancing.

Schlüsseltätigkeiten

* Inconsistency-Analysis of OpenLDAP directory
* Validation of roles and permissions
* Design and implementation of a revalidation system for existing permissions
* Security gap analysis
* Connecting external analysis and alarm systems to central monitoring
* Analysis of IDS data
* Patch management for middleware components
* Planning and evaluation of firewall rules
* Automation of system management tasks

**2021 Bayerischer Rundfunk/ Networker solutions**

**Solution Architect**

Design and implementation of a pseudonymization solution for Windows and Unix logs

Schlüsseltätigkeiten

* Requirements analysis
* Solution design
* Implementation

**2007 to 2021 DEUTSCHE BANK AG — Frankfurt / Eschborn**

**Systems Engineer**

Working as a contractor for various project and business areas like capital markets and retail banking. Providing administration of Solaris, SLES and OEL/RHEL systems on physical and virtual systems. Design and implement HA and DR solutions. Plan and implement of automatization solutions. Implement application solutions linked to SAP banking. Implement infrastructure management system to support operation of large scale UNIX environment. Data warehouse design

Key Contributions

* Design, implementation and support of a data warehouse for reporting and troubleshooting system in a large scale heterogeneous UNIX environment. Collecting various data points for tens of thousands of UNIX servers (Linux, Solaris, AIX) into a database, data analysis, reporting and troubleshooting. Monitoring by displaying and tracking error conditions. Used technologies: Oracle SQL, Perl, Python, Shell
* Implemented SAP HANA solution on HP SuperDomeX hardware and integrated it into the existing infrastructure.
* Planned and implemented infrastructure for SAP banking including Linux application servers, network, Oracle database servers, GPFS based file servers and HA components.
* Planned and implemented DR concepts with Veritas Storage Foundation on Solaris
* Planned and implemented DR concepts with Oracle CRS and RAC on Linux
* Implemented solutions to safely and securely transfer data from and to SAP applications.
* Planned and implemented solution to provide anonymized test data from production systems with SAP TDMS.
* Enhanced and supported an in-house-made automatization framework to automate daily tasks on > 30 000 UNIX servers.
* Planned and implemented High Availability solutions with Veritas Cluster and Cluster Filesystem.
* Implemented Oracle Exadata / Exalogic environment.
* Planned and implemented a solution to manage the storage stack for Linux based systems including EMC SAN storage, EMC PowerPath, Linux multipath, Linux LVM and Oracle ASM, Vertias SF on Solaris and AIX.
* Implemented LAN-free backup with TSM.
* Migrated large amounts of data between different storage systems.
* Installed/ supported/ updated numerous servers running Solaris and Linux.

**2020 DB Systel / Zero.One.Data**

**Software Developer**

Development of a centralized asset management system for Deutsche Bahn group based on a neo4j graph database, Flask webservices and Vue.js

Key Contributions

* Modelling of the graph structure for asset data
* Design of the data processing steps
* Implementation REST Services in Python with Flask
* Reconciliation of the interface with connecting systems
* Implementation of Cypher queries for the user interface

**2018 – 2019 Allgeier Core**

**IT Basis Check**

Project management fort he analysis of the IT of a medium-sized enterprise

Key Contributions

* Coordination of the various departments involved in the analysis ( hardware, os, sap, security )

**2017 T-Systems Darmstadt**

**Automation Consultant**

Consulting for a complex automation project

Key Contributions

* Design of automation workflows
* Evaluation of automation concepts

**2002 to 2007 T-SYSTEMS — Darmstadt,**

**Systems Administrator / Technology Team Lead / Storage Administrator**

Operation of a large scale UNIX environment and SAN implementation

Key Contributions

* Migration from large scale direct attached storage topology (Sun E10000 with A3500FC) to SAN with FC HBAs, Brocade SAN components and EMC storage.
* Implementation of Veritas based HA solutions on Solaris and AIX.
* Implementation of a LAN free backup solution with IBM 8514 tape libraries, Brocade SAN and Legato Networker.
* Implementation of Oracle RAC on Solaris.

**2003 to 2004 NORDMILCH EG — Bremen,**

**Systems Engineer / Consultant**

Supported the design and implementation of a Geo Cluster to run SAP

Key Contributions

* Designed and implemented a Veritas Cluster solution with EMC GeoSpan on Sun E10000.
* Designed and implemented a servless backup solution for Informix with EMC TimeFinder and Veritas Netbackup

**2002 to 2003 HAMBURGISCHE LANDESBANK**

**Security Consultant**

Securing the web servers of a Bank against attacks from the Internet

**2001 to 2002 DEUTSCHE LEASING — Bad Homburg,**

**Systems Engineer / Software Developer**

Development and system administration for an e-commerce platform

Key Contributions

* Setup of a 3-tier configuration with iPlanet webserver, Bea Weblogic Server and Oracle Database Server on HP-UX and Solaris

**2000 to 2001 DEUTSCHE BÖRSE — Frankfurt,**

**Systems Administrator**

Supported the development of large-scale trading applications

Key Contributions

* Supported AIX and Solaris servers and workstations used in the development of a complex trading platform

**1997 to 2000 MICROMATA GMBH — Kassel,**

**Software Architect, Development Team Lead**

Worked as co-founder in a software company and as consultant for various projects

Key Contributions

* Designed and implemented a video conferencing system.
* Designed and implemented a large programming library for C++ which was used in industry projects.
* Implemented the simulation of automatic warehouses with C++ and CORBA.
* Redesign of the flow of material system for an automatic warehouse connecting with a SAP warehouse management system on one side and the conveyance system and terminals on the other side. Optimized the output of the warehouse to meet the requirements

# Additional IT Experience

Excelled in early IT career, advancing through increasingly responsible roles including

1997-1999 Trainers Unlimited, Köln

Novell and Microsoft Trainer

# Education

1992 – 1996 Universität Kassel - Basic studies in Mathematics

1986 - 1992 Grotefend Gymnasium Hann-Münden High School Diploma, Skipped one class

1979 – 1986 Lucas Lossius Schule (Elementary school)

# Training

MITx - 6.86x: Machine Learning with Python-From Linear Models to Deep Learning

MITx - 6.431x: Probability - The Science of Uncertainty and Data

CISSP Certification

The Analytics Edge

Computer Forensics

Big Data

Scalable Machine Learning

ITIL Foundation V2 and V3 2008 and 2010

Various Software and Hardware Trainings including Solaris System Administrator, Microsoft MCT, Novell CNI, Veritas HA Architect, Oracle Elastic Cloud Administration, Big Data X-Series

# Miscellaneous

Foreign Languages: German (mother tongue),

English (fluent), Italian (good)

Hobbies/Interests: Tennis, Snowboard, Mountain biking, Literature