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| --- | --- | --- |
|  | **Name:** | Manfred Schirmer |
|  | **Date of birth:** | September 15, 1955 |
|  | **Nationality:** | German |
|  | **Languages:** | German / native speaker English / fluent |
|  |  |  |  |
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|  |  |  |  |
| **Conditions** |  | **Disposability:** | Jan 2023 |
|  |  | **Location:** | International |
|  |  | **Hourly rate:** | 115,00 EUR  |
|  |  | **Daily rate:** | 920 EUR |
|  |  |  |  |
| **Qualifications** |  |  | Engineer / Electrical EngineeringHP-UX Performance und TuningUnix-Ware Master |
|  |  | **IT-Experience since:** | 1980 |
|  |  |  |  |
| **Information Technology Experience** |  | **System Administration** | Red Hat Enterprise Linux 4.0 up to 8.4, SuSE Linux Enterprise Server up to 11, Debian, Ubuntu, CentOS, Scientific-LinuxAIX, HP-UX, VMWare ESX vSphere 4, 5, ESXiSolaris 8 up to 11, SCO Unix, NetBSD, FreeBSD, OpenBSD, NanoBSDNovell Netware, OS/2, Citrix Server/Cluster, Microsoft Windows Server 2003, 2008, ActiveDirectory, openLDAP, ZFS, VERITAS NetbackupVERITAS Volume Manager, Cluster, File System  |
|  |  | **Programming Languages** | C/C++/C#, Java, Pascal, PHPPerl, Python, Shell (sh, ksh, bash) |
|  |  | **Tools** | Ansible, Puppet, Puppet Bolt, Chef,HP OpenView, MC/ServiceGuard, McAfee ePolicy Orchestrator, OpenVZ, HP Quality Center, Puppet, Chef, RHN, RedHat Satellite, Kickstart, ADS, PXE-boot, ITIL process, Sendmail, Postfix, PCI DSS |
|  |  | **Databases** | MySQL up to 5.x, MariaDB, Oracle 9i up to 11g, MS SQL Server 2005  |
|  |  | **Network Administration** | LAN, WAN, TCP/IPv4, IPv6, NIS, NIS+, NFS, DNS, DNSSEC, LDAP, SNMP, DHCP, CARP, LoadBalancing, Sendmail, Postfix, IMAP, SSL, Qualys SSL Labs, Kerberos |
|  |  | **Hardware** | SUN SPARC Server, SUN Blade, SUN Fire, UltraSPARC-T2, T4IBM RS6000, pSeries, iSeriesBrocade SAN Switch,HP 9000 A-Series, N-Series, HP SureStore Tape Library,HP VA741019“ Server HP, Dell, Siemens, IBMCISCO 650x, 5x00, 37xx, 35xx, 29xx, PIX520Nokia 12xx, 22xx |
|  |  | **Web Technology** | Apache httpd, Tomcat 5 up to 7, nginx,JBoss 4 up to 7, Wildfly 8 up to 19, ActiveMQ, Artemis |
|  |  | **Monitoring** | Nagios, Icinga, Icinga2, Splunk, Cacti, Jolokia, HP Openview, Tivoli, ELK |
|  | **Client** |  | **KBS Knappschaft Bahn See** |
|  |  |  | [https://www.kbs.de](https://www.kbs.de/)  |
|  | **Industry sector** |  | Pension Fund |
|  | **Feb 2020 to Today** |  | ***System Engineer Middleware Linux Systems*** |
|  |  |  |  |
|  |  |  | Installation, automation and operating of Web- and Application Server |
|  | **Software** |  | Apache, Tomcat, Wildfly, ActiveMQ, Websphere, subversion |
|  |  |  |  |
|  | **Client** |  | **European Media Laboratory,** Heidelberg |
|  |  |  | <https://www.eml.org/unternehmen/>  |
|  | **Industry sector** |  | Research and Development |
|  | **Oct 2019 to Today** |  | ***System Engineer Linux Systems*** |
|  |  |  |  |
|  |  |  | Installation, automation and operating of Web- and Application Server |
|  | **Software** |  | OpenShift, Docker, Ansible, RedHat Enterprise Linux 6 und 7, Solaris 10, Apache, Nginix, Tomcat, Wildfly |
|  |  |  |  |
|  | **Client** |  | **Debeka,** Koblenz |
|  |  |  | <https://www.debeka.de/unternehmen/portrait/>  |
|  | **Industry sector** |  | Insurance |
|  | **Oct 2019 to Jan 2020** |  | ***System Engineer Applikations Linux Systems*** |
|  |  |  |  |
|  |  |  | Installation, automation and operating of Web- and Application Server |
|  | **Software** |  | OpenShift, Docker, SLES12 und 15, Apache, Nginix, Tomcat, Wildfly, Puppet, Puppet Bolt, Ansible |
|  |  |  |  |
|  | **Client** |  | **BwFuhrparkService GmbH,** Troisdorf |
|  |  |  | [https://www.bwfuhrpark.de](https://www.bwfuhrpark.de/)  |
|  | **Industry sector** |  | Military Services |
|  | **Aug 2019 to Dec 2019** |  | ***System Engineer SAP Systems*** |
|  |  |  |  |
|  |  |  | Installation, automation and operating of Web- and Application Server |
|  | **Software** |  | SuSE Linux Enterprise Server 12 and 15, Ansible |
|  |  |  |  |
|  | **Client** |  | **Schufa Holding AG,** Wiesbaden |
|  |  |  | [https://www.schufa.de](https://www.schufa.de/)  |
|  | **Industry sector** |  | Banking IT |
|  | **Jan 2019 to Oct 2019** |  | ***System Engineer Middleware and Unix Systems*** |
|  |  |  | Installation, automation and operating of Web- and Application Server |
|  | **Software** |  | OpenShift, Docker, Ansible, RedHat Enterprise Linux 6 and 7, Solaris 10, Apache, Nginx, Tomcat, Wildfly |
|  |  |  |  |
|  | **Client** |  | **Consorsbank**, Nürnberg |
|  |  |  | <https://de.wikipedia.org/wiki/Consorsbank>  |
|  | **Industry sector** |  | Banking IT |
|  | **Oct 2017** **To Oct 2018** |  | ***System Engineer Middleware, Monitoring*** |
|  |  |  | Installation, automation and operating (Webstack, Application-Server)Installation and customizing of monitoring-checks and DevOps pipelines |
|  | **Software** |  | RedHat Enterprise Linux 6 and 7, JBoss Enterprise Application Platform, Tomcat, Apache Webserver, Ansible, ActiveMQIcinga2, Subversion, Git |
|  |  |  |  |
|  | **Client** |  | **finanz informatik technologie service**, Stuttgart |
|  |  |  | <https://www.f-i-ts.de/kunden/kunden-ueberblick/lbbw>  |
|  | **Industry sector** |  | Banking IT |
|  | **March 2017** **To Dec 2018** |  | ***System Engineer Applikationsbetrieb Unix Systeme*** |
|  |  |  | Installation, automation and operating (Webstack, Application-Server)Identity- and Access Management |
|  | **Software** |  | RedHat Enterprise Linux 6 and 7, JBoss 6 up to Wildfly 9, Websphere WAS, Apache Webserver, Ansible, SAS, LDAP server and clients |
|  |  |  |  |
|  | **Client** |  | **Sparda Datenverarbeitung e.G.**, Nürnberg<http://www.sdv-it.de/ueber-die-sdv>  |
|  | **Industry sector** |  | Banking IT |
|  | **Feb 2016** **To Feb 2017** |  | ***System Engineer Middleware, Linux, zOS***Installation, automation and operating (Webstack, Application-Server) |
|  | **Software and tools** |  | RedHat Enterprise Linux 6 and 7, Suse SLES11, SLES for System z, JBoss 6 up to Wildfly 9, Websphere WAS, Liberty, Portal, Apache Webserver, puppet, hiera, subversion, git |
|  |  |  |  |
|  | **Client** |  | **FILIADATA / dm-drogerie markt**, Karlsruhe<https://www.dm.de/unternehmen/arbeiten-und-lernen/arbeiten-bei-uns/filiadata-c534052.html> |
|  | **Industry sector** |  | Retail Industry IT |
|  | **August 2015** **To Jan 2016** |  | ***System Engineer Linux Production Systems***Automatic installation and HA operating (Webstack, Application-Server) |
|  | **Software and tools** |  | RedHat Enterprise Linux 6 and 7, JBoss 6 up to Wildfly 9, Tomcat 6 and 7, Apache webserver, nginx webserver, Varnish, Reverse-Proxies, puppet, ruby, Perl, foreman, keepalived, tanuki, Icinga2, jolokia, Jmx4Perl, percona, Galera-cluster |
|  | Additional Information |  | <https://www.inovex.de/uploads/loesungsarchitektur.png>  |
|  |  |  | <https://www.inovex.de/uploads/deployment-und-lifecycle-management.png>  |
|  |  |  |  |
|  | **Client** |  | **DZ Bank AG**, Frankfurt<https://en.wikipedia.org/wiki/DZ_Bank> |
|  | **Industry sector** |  | Banking IT |
|  | **January 2015** **To July 2015** |  | ***System Engineer******As freelance in Application Support and System Engineer*** Installation and HA operating of Apache, JBoss, and Tomcat servers. Last level support. |
|  | **Software and tools** |  | RedHat Enterprise Linux 6 and 7, Solaris 10 and 11, ZFS, JBoss 4 up to 7, Tomcat 5 up to 7, Apache web server and reverse proxies, WatchIT, UC4, RedHat Satellite 5 and 6, Perl |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **IBM** Global Business Services <http://www.ibm.com/services/us/en/outsourcing/index.html>  |
|  | **Industry sector** |  | IT Services |
|  | **April 2014****To December 2014** |  | ***System Engineer******As freelance in Application Support and System Engineer***Installation and HA operating of Apache, JBoss, and Websphere servers. Last level support. |
|  | **Software and tools** |  | RedHat Enterprise Linux 5 up to 6, Jboss 4 up to 7, Tomcat, Websphere, Apache, Kerberos, Configuration and deployment framework written in bash and Perl |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **Media-Saturn** IT-Services, Ingolstadt <http://www.media-saturn.com/group/EN/Pages/Default.aspx>  |
|  | **Industry sector** |  | Retail Industry IT |
|  | **September 2012** **To March 2014** |  | ***Systems Design Engineer******As freelance in System Design and System Engineer***Installation and HA operating of Apache, JBoss, Tomcat and Coldfusion servers.Oracle clusters on virtual and physical servers.Data center transition and operating, design and implementation Nagios monitoring |
|  | **Software and tools** |  | SuSE Linux Enterprise Server 10 up to 11, VMWare, Jboss, Tomcat, Websphere 8.5, Apache, Kerberos, AppDynamics, ColdFusion9, Nagios, Munin, Cacti, F5 Loadbalancer |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **Sybase 365**, Raunheim (now subsidiary of SAP)<http://en.wikipedia.org/wiki/Sybase>  |
|  | **Industry sector** |  | IT, Telecommunications |
|  | **June 2012** **To September 2012** |  | ***Systems Design Engineer******As freelance in System Design and System Engineer***Installation and HA operating of Apache, JBoss, Tomcat, Oracle clusters, troubleshooting and debugging web applications |
|  | **Software and tools** |  | Red Hat Enterprise Linux, VMWare, Kickstart, Jboss6 up to 7, Tomcat, Apache, Apache mod\_jk loadbalancer, bash, Oracle 10g up to 11g, Perl, Python, Kerberos |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **ORGA GmbH**, Karlsruhe (now subsidiary of FIDUCIA)[http://www.orga.de](http://www.orga.de/) |
|  | **Industry sector** |  | Banking IT |
|  | **September 2011** **To June 2012** |  | ***Linux System Administration and operating Tomcat, JBoss******As freelance in System Design and System Engineer*** Installation and HA operating of Apache, JBoss, Tomcat, Oracle clusters, troubleshooting and debugging web applications |
|  | **Software and tools** |  | Red Hat Enterprise Linux, PXE-boot, VMWare, Jboss4 and 5, Tomcat, Apache, bash, Oracle |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **IT.NRW**, Düsseldorf <http://www.it.nrw.de/UeberUns/ITNRW_Ueberblick/Flyer_UeberUns_english.pdf>  |
|  | **Industry sector** |  | Government Service (IT)  |
|  | **July 2011** **To February 2012** |  | ***Linux Systemadministration JBoss******As freelance in System Design and System Engineer***Installation and HA operating of Apache, JBoss, Tomcat, Oracle clusters, troubleshooting and debugging web applications |
|  | **Software and tools** |  | Red Hat Enterprise Linux, AppDynamics, OpenLDAP, Puppet, Chef, Perl, PHP, Kerberos, VMWare, Jboss5, JBoss7, Tomcat, Apache, Bash, Python, Fabric |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **Deutsche Post AG**, Bonn <http://www.epost.de/geschaeftskunden.html>  |
|  | **Industry sector** |  | Communications |
|  | **January 2011** **To June 2011** |  | ***Linux Systemadministration******As freelance in System Design and System Engineer***Installation and operating of Linux servers. Design and implementation of load balancing and firewalls. Automatic configuration with Puppet. |
|  | **Hardware** |  | HP, Cisco, NetApp |
|  | **Software and tools** |  | Red Hat Enterprise Linux, Ubuntu Linux, OpenLDAP, Puppet, Perl, PHP, VMWare, OpenVZ, Jboss, Tomcat, Postfix, BashWindows Server, Exchange, Lotus Domino |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **ITSG** Informationstechnische Servicestelle der gesetzlichen Krankenversicherung, Heusenstamm [http://www.itsg.de](http://www.itsg.de/)  |
|  | **Industry sector** |  | Health Services (IT) |
|  | **September 2010** **To December 2010** |  | ***Linux Systemadministration******As freelance in System Design and System Engineer***Installation and HA operating of Apache, JBoss on Linux and Windows servers.Deployment JAVA-Software and tools |
|  | **Hardware** |  | HP, Fujitsu, NetApp |
|  | **Software and tools** |  | Suse Linux, Ubuntu Linux, OpenLDAP, Perl, VMWare, Jboss, TomcatWindows Server 2003 and 2008, MS SQL Server 2005(9.0) and 2008(10.0) |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **HZD** Hessische Zentrale für Datenverarbeitung, Wiesbaden [http://www.hzd.de](http://www.hzd.de/)  |
|  | **Industry sector** |  | Government Service (IT)  |
|  | **May 2010** **To August 2010** |  | ***Linux Systemadministration******As freelance in System Design and System Engineer***Installation and operating of Linux servers. Design and implementation of load balancing and firewalls. Operating Oracle Application servers,Design and implementation Nagios monitoring. |
|  | **Hardware** |  | Fujitsu |
|  | **Software and tools** |  | Suse SLES9–11, OpenLDAP, Perl, Shell-Scripts, Oracle10, Nagios, Icinga, VMWare, JBoss, Tomcat, Windows Server 2003 und 2008 |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **Vodafone**, Eschborn [http://en.wikipedia.org/wiki/Arcor\_(telecommunications)](http://en.wikipedia.org/wiki/Arcor_%28telecommunications%29)  |
|  | **Industry sector** |  | Telecommunication |
|  | **January 2010****To April 2010** |  | ***Unix Systemadministration******As freelance in System Engineer*** Installation and HA operating of Unix clusters, ITIL, connection to SAN-Storage and Oracle Databases. |
|  | **Hardware** |  | HP, IBM, EMC Clariion, Symmetrix |
|  | **Software and tools** |  | HPUX 11, ServiceGuard, AIX, HACMP, Linux (RHEL 3 und 5), OpenLDAP, Perl, Oracle Nagios |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **UBS AG**, Frankfurt <http://www.ubs.com/de/en.html>  |
|  | **Industry sector** |  | Banking IT |
|  | **February 2008** **To December 2009** |  | ***Unix System Administration******As freelance in System Engineer*** Installation and operating of Linux and Unix servers in international team. Backup/Restore services. Data center transition to co-location, Change Management and Incident-Management according to ITIL. Rotating team responsibility in Follow-the-Sun-Schedule. |
|  | **Hardware** |  | SUN, StorageWorks, Quantum, HP, Fujitsu Siemens, IBM, NetApp, Hitachi, EMC,Brocade, Cisco |
|  | **Software and tools** |  | Solaris 10, HPUX 11, AIX, Linux (RHEL 3 und 5), MAC OSX Server, NetCool System Monitoring, Veritas Storage Foundation, Veritas NetBackup, ARS Remedy, HP Open ViewOracle 10, MC/ServiceGuard, NIS, Kerberos, LDAP, DNS |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **Dresdner Bank**, Frankfurt <http://en.wikipedia.org/wiki/Dresdner_Bank>  |
|  | **Industry sector** |  | Banking IT |
|  | **08/2007 – 12/2007** |  | ***AIX-System Engineer******As freelance in System Engineer***for IBM p-Series servers.  |
|  | **Hardware** |  | IBM p-SeriesSAN Storage |
|  | **Software and tools** |  | AIX 4.3 und 5.3, Development ToolsBFF Packaging Tools |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **MAN Turbo AG**, Oberhausen <http://turbomachinery.man.eu/>  |
|  | **Industry sector** |  | Mechanical Engineering (IT) |
|  | **04/2007 - 08/2007** |  | ***Unix-Systemadministration******As freelance in System Engineer***HP Cluster for CAD-Construction, IBM p-Series server running SAP, Linux High-Performance Cluster for Scientific Calculations |
|  | **Hardware** |  | IBM p-Series, HP-Server: RISC and Intel Itanium (Failover-Cluster)SAN Storage |
|  | **Software and tools** |  | AIX 4.3 und 5.3, SAP Basis Administration, RHEL 3 und 4HPUX 11, MC/ServiceGuard, I-Deas CAD-Software, ARS Remedy, Nagios monitoring |
|  |  |  |  |
|  |  |  |  |
|  | **Client** |  | **AWEK Mikrodata**, Bielefeld [http://www.awek.de](http://www.awek.de/)  |
|  | **Industry sector** |  | Retail Industry IT |
|  | **08/2006 - 03/2007** |  | ***Netzwork Administration and System Software Development******As freelance in System Engineer and Software Development***Network Infrastructure Design, System Software Development for Retail  |
|  | **Hardware** |  | Intel Server, Cisco Router, HP ProCurve Switches |
|  | **Software and tools** |  | Windows Server 2003, Linux Server (Debian 3, SLES 10), VPN, Firewall (IP-Tables)SAMBA, Apache, JBoss, TomcatPostfix, SNMPLinux Kernel Development, System Installer |
|  |  |  |  |
|  | **until July 2006** |  | The following projects ran under employment of **CSE** GmbH, Gefrees (now subsidiary of AWINTA)<http://www.awinta.de/>  |
|  | **July 2006** |  | ***Installation WLAN***Access-Point Infrastructure |
|  | **Hardware** |  | Cisco Linksys WRT 54G  |
|  | **Software and tools** |  | WEP / WPA |
|  |  |  |  |
|  | **June 2006** |  | ***Installation VoIP-Router***Internet Access for network and phones. |
|  | **Hardware** |  | FritzBox Fon 5050 |
|  | **Software and tools** |  | Firewall |
|  |  |  |  |
|  | **May 2006** |  | ***Tuning für T1 multithreading Systeme von Sun***Tunig Software for CoolThreads technology of Sun SPARC T1 server |
|  | **Hardware** |  | Sun UltraSPARC T1 (T1000 und T2000) |
|  | **Software and tools** |  | Solaris, Apache, Sendmail, MySQL, Oracle, JBoss, Tomcat |
|  |  |  |  |
|  | **April 2006** |  | ***Installation und Administration OpenSolaris auf Intel-Hardware*** |
|  | **Hardware** |  | Intel Server |
|  | **Software and tools** |  | Open Solaris 11, Sendmail, Postfix, Apache ... |
|  |  |  |  |
|  | **Client** |  | **VSA** ApothekenSysteme GmbH, Gefrees |
|  | **Industry sector** |  | Retail Industry (IT) |
|  | **January 2005** **To November 2005** |  | ***Administration Mail System***Microsoft Exchange, HA Mail Proxies |
|  | **Hardware** |  | Intel Server Cluster, SAN Storage f5 BIG/ip LoadbalancerCisco Switches Catalyst 2960, PIX 520 Firewallmulti vendor internet connection  |
|  | **Software and tools** |  | Exchange 2003, Postfix, Apache, Trend Micro Virus Wallgrey listing spam filter |
|  |  |  |  |
|  | **Client** |  | **VSA** GmbH, München |
|  | **Industry sector** |  | Data center for drugstores  |
|  | **January 2002****To November 2005** |  | ***Administration HP Cluster / Oracle Database Systems*** Administration and operating |
|  | **Hardware** |  | HP 9000 N Cluster, HP 9000 AHP VA7410Cisco Switches Catalyst 6509, 3750GBrocade SAN SwitchHP SureStore Tape Library |
|  | **Software and tools** |  | HP UX 11i, MC/ServiceGuardHP Open View, OracleSuSE Linux Enterprise Server 9JBoss, Tomcat, Java |
|  |  |  |  |
|  | **Client** |  | **VSA** GmbH, München |
|  | **Industry sector** |  | Data center  |
|  | **July 2005** **To November 2005** |  | ***Administration HP OpenView Data Protector on HPUX-Cluster***Online Backup Oracle Backup automation |
|  | **Hardware** |  | HP 9000 N Cluster, HP 9000 A, HP VA7410Cisco Switches Catalyst 3750GBrocade SAN SwitchHP SureStore Tape Library |
|  | **Software and tools** |  | HP UX 11iHP Open ViewHP Data ProtectorOracle RMAN |
|  |  |  |  |
|  | **July 2005** |  | ***Installation HP OpenView Data Protector on HPUX-Cluster***Software migration to HP-Data-ProtectorImplementation HP tape libraries. |
|  | **Hardware** |  | HP9000 N Cluster, HP 9000 A, HP VA7410Cisco Switches 3750G, 3560, 2960Brocade SAN SwitchHP SureStore Tape Library |
|  | **Software and tools** |  | HP-UX 11iHP Open ViewHP Data ProtectorOracle RMAN |
|  |  |  |  |
|  |  |  |  |
|  | **June 2005** |  | ***Installation Oracle 9 for Software Development*** |
|  | **Hardware** |  | Intel Server (FSC) |
|  | **Software and tools** |  | Oracle 9, JBoss, Tomcat, Java |
|  |  |  |  |
|  | **June 2005** |  | ***Software development Online Data Services***  |
|  | **Software and tools** |  | Perl, Java, WebDAV, XMLApache, Tomcat |
|  |  |  |  |
|  | **May 2005** |  | ***Installation Server***Test and Implementation of Scientific Linux as low cost RHEL clonehttps://www.scientificlinux.org |
|  | **Hardware** |  | Intel Server |
|  | **Software and tools** |  | Scientific Linux 4.1DNS, DHCP, Firewall, Apache, MySql, Squid, Samba, Postfix |
|  |  |  |  |
|  |  |  |  |
|  | **April 2005** |  | ***Replacement Nokia Firewall Hardware*** |
|  | **Hardware** |  | Nokia 500sNokia FirewallCisco PIX 520 |
|  | **Software and tools** |  | FreeBSD, CheckPoint FireWall1 |
|  |  |  |  |
|  | **April 2005** |  | ***Administration NFS***Automount via NFS |
|  | **Hardware** |  | HP9000, Intel-Server |
|  | **Software and tools** |  | HP-UX, Linux, NFS, automount |
|  |  |  |  |
|  |  |  |  |
|  | **March 2005** |  | ***SUSE-Cluster***Design and implementation HA server, Softwaretests, Nightly Builds, Server Backup |
|  | **Hardware** |  | Server FSC Primergy RX300FSC FibreCAT S80Cisco Switches Catalyst 3560 |
|  | **Software and tools** |  | SUSE SLES9, Heartbeat, Perl, Java SDK, PaperCut, Phorum, Apache, Bugzilla, Webmin, HP Data Protector, Oracle |
|  |  |  |  |
|  | **March 2005** |  | ***Rollout Citrix Client***Version 8 |
|  | **Hardware** |  | Intel Server-Farm (for 1200 users)Cisco Switches Catalyst 3750G |
|  | **Software and tools** |  | Citrix, Windows 2003 Server |
|  |  |  |  |
|  | **February 2005** |  | ***Software Development***Recurrent data transfer from/to wholesale. Firewall updates |
|  | **Hardware** |  | Server |
|  | **Software and tools** |  | HP-UX, Linux, nfs, ftp, iptables, wget, Shell-Scripts, Perl |
|  |  |  |  |
|  | **February 2005** |  | ***Firmware-Update HP VA7400***New Firmware release for disc controller and hard disks |
|  | **Hardware** |  | HP9000 N Cluster, HP9000 A, HP VA7410Brocade SAN Switch |
|  | **Software and tools** |  | HP-UX 11i, HP Service GuardHP Open View, HP Data ProtectorOracle RMAN |
|  |  |  |  |
|  | **February 2005** |  | ***Big-Brother Monitoring*** |
|  | **Hardware** |  | Intel-Server, SUN-Sparc Server, HP9000 RISC ServerDiesel generator, Surveillance cameras |
|  | **Software and tools** |  | BigBrother, Apache, PHP, Java, Java Script, MRTG, Postfix, Perl |
|  |  |  |  |
|  | **January 2005** |  | ***Software Development Java***Software components for Point of Sales Systems.Connection of receipt printers and card reader. |
|  | **Software and tools** |  | Eclipse 3, Tomcat, JBoss |
|  |  |  |  |
|  | **January 2005** |  | ***Exchange Mail Cluster***Design and implementation Exchange 2003, Mailbox transition |
|  | **Hardware** |  | Server FSC Primergy RX300FSC FibreCAT S80Cisco Switches Catalyst 2960 |
|  | **Software and tools** |  | Windows 2003 Cluster Server, Exchange 2003 |
|  |  |  |  |
|  | **May 2002** **To September 2005** |  | ***Administration Solaris-Server***Operating web portal [http://www.apothekenportal.de](http://www.apothekenportal.de/) Software development PKI |
|  | **Hardware** |  | SPARC-Server |
|  | **Software and tools** |  | Solaris |