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Objective

A full time position in a creative and challenging environment in the field of computer science that would allow me to grow professionally and personally.

Personal Information

- **Date/Place of birth :** June 25, 1989 / India
- **Nationality:** Indian
- **Languages:** English, Hindi, Tamil and German(A1 Level)

Education

2010-2013

Halmstad University and Hochschule Ostwestfalen-Lippe
Master of Science, Information Technology.

This took place in two countries in collaboration with following universities:

- Halmstad University, Sweden
- Hochschule Ostwestfalen-Lippe, Germany

2006-2010

Anna University, Chennai, India
Bachelor of Technology, Information Technology.

Experience, Thesis & Projects

March 2015-Current

HRS.de, Köln, Germany
DevOps Engineer March 2015 - November 2015
Cloud Engineer November 2015 - Current

As a Cloud engineer/Devops engineer, I undertook the following responsibilities:

- Responsible for designing, configuring, and administrating Linux system architectures
- Managing large-scale infrastructure of HRS, including backend, frontend and mysql database

- Creation and administration of all the virtual machines for various environment using Vmware Vsphere and Foreman
- Was heavily involved in developing and implementing a concept of writing infrastructure as code using tools like Puppet, Chef and Vagrant
- Designed and implemented a continuous delivery pipeline using Puppet, RPM, Maven and Jenkins
- Development and maintaining Puppet modules for various application component
- Administration of source code management tools like GIT and SVN
- Administration of systems monitoring, alerting and analytic tools like: Nagios. Icinga, Keynote and Pingdom
- Developing and optimizing Continuous integration processes
- Automation of frequently used processes using Ansible, Perl and Bash.
- Responsible for creation and maintaining data integration jobs called Kettle jobs to transfer data from DB2 to Mysql database using Pentaho data integration tool
- Administration of Mysql clusters
- Was part of AWS (Amazon Web Service) migration team, with sole purpose to migrate application from on-premise data centre to Amazon cloud
- Developed a cloud formation template for the production and other staging environment for HRS, which allowed creation of an environment on AWS with "a single click of a button"

Achievements

- Introduced the concept of Team Environment (development environment), which allowed a developer to create a miniature replica of production environment to develop and test their code.
- The whole creation process of Team environment was automated using variety of tools like: Foreman, Jenkins, Puppet, GIT and Ansible
- Out of various 78 different application of HRS, migrated 22 of them into AWS cloud.
- Introduced Kanban methodology which was eventually adapted for day to day business
- Developed a cloud formation template which allowed creation of an environment by just running a Jenkins job

September 2013-February 2015

Werum Software & Systems AG, Sankt Augustin, Germany
Software Engineer

As a software engineer, I undertook the following responsibilities:

- Development of Werum's PAS-X software system which is based on **Java (EE), OpenRoad & SQL**. JBOSS acts as the application server and Oracle as database
- Defining test cases and performing module test

- Defining and optimizing the Continuous Integration (CI) and build processes using CI and build tools such as **Java, Jenkins, Maven, ant, Batch script and XML**. Documenting the processes that were defined
- Developing, configuring and maintaining new builds targets in Jenkins
- Development of Scripts using Windows Batch and VB script to automate the repetitive task
- Part of application packager team: Developing and mainting NSIS installer which is used to deploy PAS-X
- Development and maintaining a strategy for release and deployment of the software to Customers
- Preparation of the delivery and coperating with the customer on the deployment of the same
- Taking care of nightly builds
- System integration for international customers either on-site or via Remote access
- Supporting international customers with the integration and runtime issues

Achievements

- Integrated JIRA (Bug tracking and Issue tracking system) into existing environment
- Developed a new strategy that allowed controlling all the build servers from one master build server
- Integrated Werum's PAS-X system at three J&J production facilities: Italy, Brazil and China

2012-May 2013

Master's Thesis
Ostwestfalen-Lippe University of Applied Sciences,Lemgo,Germany

Visualization of Wireless Sensor Data on Apple IOS Devices

The vital goal of the thesis work was to develop a web services to communicate with different microcontroller inorder to access the sensor data and visualize the same on an Objective-c client. The thesis work contained the following tasks:

- Evaluated the status in the field ***"Internet of things"*** with respect to sensor data visualization
- Described a software architecture which is transparent with respect to the particular micro-controller used
- Designed a URI structure of RESTful web service which is universal to variety of sensor classes
- Developed a Javascript based web server using **node.js** & a database using mongoDB, to host the data from sensor
- Finally an Objective-C client, running on an iOS device to consume the services and visualize the value from sensor, was designed

June-September 2012

Internship
Transcat PLM GmbH,Karlsruhe,Germany

Conception of a SOA based Load Balancing solution for CATIA QChecker

The internship consisted of following tasks:

- Comparing the various existing load balancing solution that would cater the need and would fulfill the criteria
- Proposed a solution that involved using **nginx** to quench the need for load balacing
- Implemented SOAP based session handling on the AXIS 2 server and client
- Tested the new architecture with various test cases

2012

Semester Project
Ostwestfalen-Lippe University of Applied Sciences,Lemgo,Germany

Development of a RESTful web service to access test and measurement instruments with SCPI interface

The goal was to develop and deploy a RESTful web service, which allows user to interact with various test instrument connected either via USB, ethernet or GPIB interface. Python script was used to pass the SCPI command to the test instrument. A GUI was developed using Java Swing, which made interaction easier. The developed architecture was then compared to **MATLAB and LabView**

2010

Bachelor Thesis
Anna university, Chennai, India

Spread Method for Dividing the Outlay of Multicast Transmission.

The main objective was to share the cost of Messages being sent and received by the nodes in a distributed and parallel environment. A method named as distributed Shapely Value mechanism was developed and simulated in C# and Matlab

Technical Skills

- **Proficient programming skills:** C, Puppet, Ansible, JSON, Hiera, JAVA, Javascript, PHP, XML & Batch Script.
- **Basic programming skill :** C++, Python, HTML, SQL & MongoDB.
- **Specifications and Protocols :** REST, SOAP & SOA.
- **Cloud Platform :** AWS & Azure.
- **Servers:** JBOSS, Apache tomcat, GlassFish, Jetty and NGINX.
- **Frameworks:** Ant, Apache Maven, Axis 1 and 2.
- **Tools:** Jenkins/Hudson, Subversion, GIT, JIRA, VSphere, GIT, SVN & Bugzilla.
- **IDE's:** Eclipse, Netbeans & Xcode.

- **Operating systems:** Windows, Mac OSX, CentOS 6 & later and Ubuntu.
- **Softwares:** MS office & LaTeX

Technical Area of Interest

DevOps, Continuous delivery and deployment, Cloud infrastructure, Software Development, Web Services, Internet of Things, Wireless communication & Networks.

Hobbies

Music, Travelling, Table Tennis and Cricket.