Anand Jeyahar

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Academic Qualifications:

- Master of Sciences (Cognitive Science2)(Electives in HCI and NLP) 6.5 GPA from Center for Behavioural and Cognitive Sciences (CBCS3), University of Allahabad. 2007-2009.
- Bachelor of Engineering (Mechanical Engineering Elective: Machine Vision) 72.5
- HSC , NS Boys Higher Secondary School, Theni.(1998-2000) 88
- SSLC, NSVV Matriculation School, Pattiveeranpatti(1998) 82

Skill set:

Currently toying with:

- Languages: Haskell
- Web Frameworks: Yesod
- Cognitive Architectures: OpenCog5

Familiar with(Been there done that):

- Languages: C,C++,Python 2.6,Bash/AIX shell scripts,Latex, Baan V Script, Presentaion Script , Matlab 6.0 script
- Operating Systems:Fedora 9+,Windows 95+,Solaris 8,AIX 5.0
- Webservers: Apache
- Python Packages: Selenium, re, os, sys, apscheduler, multiproccessing, httplib2,Django,NLTK,pyt graph

Experience Summary:

- Around 5 years over various roles involved in production level software
- months (part-time) as LAMP Server Administrator From Mar.2011- Till Now
- months as Python Lead Programmer** for a saas-based erp startup at erpnext.com Sep.2010 - Mar.2011
- year as Python programmer for a cloud computing product at whitewall networks. (Sep. 2009 Jul. 2010)
- year(part-time) as Presentation script programmer, at Eye-tracker lab, CBCS,University of Allahabad.(Jan 2008 - Jan 2009,Jan 2009 - June 2009)
- years and 5 months as an System Analyst in IBM Global Services India* Ltd.(September 2004 to January 2007)
- ** - Also did a lot of Server Administration,LAMP Server setup,replication between a mysql master and percona slave, High Availability on a centOS Server for an online ERP Application.

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Projects-Academics:]

- Automation of a Thread profile inspection: Recommended a modified image processing based algorithm using CCD cameras and a coupled computer, to capture the thread profile and compare it with the required thread profile, thereby eliminating Manual testing.
- Duration judgement vs physical fatigue a correlation study: As part of the coursework,ran an experiment to study how duration judgement varies with different fatigue conditions.
- Eye-movement Studies: Colloborated in designing and coding the stimulus presentation for a Eye-movement study on Language ComprehensionVisual world paradigm.
- Colloborated in design and coded the stimulus presentation for a Eye-movement study on Emotional Reappraisal.
- Classification of puns: Developed a semantic ambiguity measure,using wordnet DB(nltk.wordnet) and similarity values extracted from it.Essentially constructed a graph of senses of all the words in the text(sentence). Then subgraphs are formed and their minimal spanning tree(MST) is calculated. The variance of total Weight of the MSTs is used as an ambiguity measure to classify puns and nonsense texts.

Projects-Corporate/Commercial:

- Setup Replication between a Percona slave and mysql master running on CentOS.
- Setting up, maintenance of svn repository for internal server tools codebase.
- Simple python script to update a given svn repo folder and reset the permissions on the contents.
- Module manager for importing and executing python modules from the filesystem,dynamically.
- Basic database test cases for a js driven,meta-data based web-app development framework
- Basic Selenium test cases for the js driven UI of the web-app framework.
- A python Package, to assign each user to a group, each of which has a specific set of permissions Create,Delete,Update,Migrate) of Machine Images,Volumes,Disks,Users,Cost limits,Applications etc. Used Django-ORM to store the tables on a MySQL DB.
- Scheduler-Job package A Wrapper(CmnScheduler,CmnJob,CmnPeriodicJob,CmnCronJob) around the python APScheduler library. The wrapper, has to receive a python function/object(which will inherit the CronJob/PeriodicJob class and override the run method) and run it in a seperate process and maintains a status table(running/finished/scheduled) of the process.(Also in the process found a bug in the apscheduler library and got it fixed)
- Sales order Upload: Sales order upload was a program that reads sales order headers and lines from an ASCII text file, sorts them according to the Sales order header and then creates/upgrades the sales order and lines table in Baan. The primary challenge was that there was no specific ordering/sequencing of the sales order lines and therefore all lines had to be read and sorted before updating the DB.
- Baan V Customization:Report Layout modification for Sales Invoice layout of Hungary,china,chile. As a consequence of the RoHS Guidelines ECR,there were a few fields that needed to be printed based on whether the RoHS flag was true or false. The key challenge was that Baan Reports had a limit of 128 fields that could be exported to the report. So had to write a couple of lines in the report script to get the required field from the table or calculate it if possible.

- Customization of Finance Transaction session: There were recurring problems of unbalanced transactions, due to a new sales order policy adopted.So customized the Finance Transaction session to allow upload of single transactions, currency-wise, thereby enabling the users to insert a transaction to balance the fiscal batch and close the year.

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Projects - Hands-on Training:]

- Wrote a basic(homework) java package, to illustrate the use of abstract classes,interfaces and polymorphism.
- Created a Basic EJBean and Deployed it using Websphere and Apache Tomcat.
- A basic Students Database with about 10 fields,3 views, and a couple of triggers on Oracle 9.0.
- Created a Bootable Linux floppy disk: To compile the smallest linux kernel and add to it the basic shell functions. Compiled out a lot of kernel performance optimization options and other hardware support options to reduce the kernel size.
- Used the basic executables provided by binutils. Created a root file system on the floppy disk populating it with the binutils executables. Then configured lilo to boot from the kernel image file.
- A kernel space device driver for an LED controller application using the serial port.
- Emulation of a Temperature sensor device driver as Loadable kernel module using /proc filesystem entries.
- A user space device driver for an infinite source and sink device.
- Building a GNU-Cross Tool chain setup installation for an ARM processor based PDA and port a Intel x86 based C Application onto the PDA.

IBM Internal Trainings:

- Entry level training program in Web technology (includes Java, J2EE and Oracle PL/SQL)
- Basic Unix and Shell scripting concepts.
- Linux internals and Device drivers
- Embedded Linux Workshop

Those bunch of tests(aka Certifications):

- Brain bench Certifications in Unix administration, OO concepts, Java 2, Programming concepts, C++, Data Modeling concepts, RDBMS Concepts
- IBM Certified specialist for IBM DB2 UDB 7.1 - Family Fundamentals.
- AIX 5L Basics Certification by IBM
- NCR Teradata Certified Professional

Hyperlinks:

- https://sites.google.com/site/anandjeyahar/
- http://github.com/anandjeyahar
- https://launchpad.net/ anandjeyahar
- http://code.google.com/u/anand.jeyahar/
- http://serverfault.com/users/64188/anand-jeyahar

- http://en.wikipedia.org/wiki/Cognitive science
- http://cbcs.ac.in/
- http://tce.edu/
- http://en.wikipedia.org/wiki/LaTeX