

Anand Jeyahar¹

Mobile: +91-7208896760

Email: firstname.lastname@gmail.com

LinkedIn Profile:<http://www.linkedin.com/in/anandjeyahar>

Skype id: [firstname].[lastname]

Objective:

To refine our basic understanding(science) of the universe both as a objective system and as a system that contains us.

I am specifically interested in using principles of geometry(Fractal,Riemann to reduce the white noise present in human communications.

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% from Thiagarajar College of Engineering and Technology⁴, Madurai Kamaraj University 2000- 2004.

Skill set:**Currently toying with:**

- **Languages:**Haskell,python3
- **Packages:**Django,NLTK,python-graph
- **Cognitive Architectures:** OpenCog⁵

Familiar with(Been there done that):

- **Languages:** C,C++,Python 2.6,Java2,Bash/AIX shell scripts,Latex⁶ Baan V Script⁷, Presentation Script⁸, Matlab 6.0 script
- **Operating Systems:**Windows 95+,Fedora 9+,Solaris 8 and AIX 5.0
- **Webservers:** Apache
- **Python Packages:** Selenium,re,os,sys,apscheduler,multiprocessing,httplib2

Experience Summary:

Work Experience:4+ years over various roles involved in production level software

- 7 months as Technology** Lead for a saas-based erp startup at erpNext.com Sep.2010 - Mar.2011
- 1 year(part-time) as Presentation script programmer, at Eye-tracker lab, CBCS,University of Allahabad.(Jan 2008 - Jan 2009,Jan 2009 - June 2009)
- 2 years and 5 months as an System Analyst in IBM Global Services India* Ltd.(September 2004 to January 2007)

** - Ended up doing 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. *- Was also the backup admin for Lotus notes server on AIX 5.0 and a TeamRoom application on Windows nt 2000 server.

Workplace/style Preferences

- Team size: 2-8
- Development style: Test-driven, Imperative/Functional programming
- Environment/Hierarchy: Flat, open communication

Who am I

- In general am a Completionist Extending the metaphor further am a System builder. Probably a nerd too, but not sure, as the data points more towards science geek than nerd.
- Personal strategy for problem solving keeps switching between Top-down and Bottom-up approach, depending on the deadline and no of projects currently working on. Suited very well for solving complicated projects and problems which seem to have no head or tail and seem to be rooted in all/multiple modules. These qualities made me a goto guy for Bohr bugs and Mandel Bugs during my tenure at IBM.

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

Module manager for importing and executing modules from the filesystem, dynamically.

Basic test cases for a meta-data based web-app development framework

User-group-permissions Manager A set of modules for managing user,groups and permissions(create,update,delete volumes,images etc..).

A Scheduler-Job package A Scheduler and Job module. A customized Scheduler, which accepts the Custom job objects(derived from cronjob/periodic job), runs them as a separate process, creates a pipe(optionally) and communicates with the job processes.

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.

Projects-Corporate/Commercial

Wall Cloud Appliance

User-group-permissions Manager : A 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.

A 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 separate process and maintains a status table(running/finished/scheduled) of the process.(Also in the process found a bug in the library and got it fixed, with help from the maintainer.)

Baan,Agile,Datasweep Integration(Java 2)

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 and order lines. Used a HashSet to store the set of Sales Order objects(nested within which was another HashSet for sales orderline objects).Had to use the StringTokenizer to parse each line from the ascii file(StreamTokenizer and FileReader Objects).Then the Entries were made on the Oracle DB, to the corresponding table(JDBC-oracle DB).The errors were logged on a log file(FileWriter Objects).

Baan Customizations

Baan IV Customization: The client wanted some of their employees to have only read access to a set of sessions. So we created new sessions which only displayed data from the tables and did not permit editing it.

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.

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: Collaborated in designing and coding the stimulus presentation for a Eye-movement study on Language Comprehension–Visual world paradigm Collaborated 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 - Hands-on Training

- Wrote a basic(homework) java package, to illustrate the use of abstract classes,interfaces and polymorphism.
- Created a Basic EJB 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.

Projects - OpenSource

Active Member of NLTK, Opencog, Developer mailing lists.

Active Contributor of python-graph and beseek project.

Active Committer(professional work) of wnframework

Primary Responsibilities(IBM):

HANDLING FIXES and ECRS:

- Analyze issues raised through defect
- Communicate with functional consultant if ticket will require bug-fix or enhancement;
- Make code changes as per coding standard;
- Retrofit the changes in different VRCs, if required
- Update 'Team Track' as applicable
- Retrofit Baan Solutions as applicable
- Read, analyze and interpret the Functional Specification
- Verify the consistency of the Func.Spec.
- Create the design, plan and the Technical Specification
- Ensure the new module and code conform to the established standards

Additional Responsibilities:

Acted as the backup for the Baan Application admin team and worked on the Component movement and release automation tools(Shell scripts).

In charge of the maintenance of an RS6000/AIX3 server which was being used as the Lotus Domino Server for Project Specific database (includes weekly and monthly backup on tape drives as primary activity)

Administration of a Windows 2000 server running MS SQL Server, Baan 5c application, a team room application and a timesheet java based application.

In charge of designing the Project Initiation and Baan Training program for a team of 3 freshers.

Primary Responsibilities(ErpNext):

Server Administration:

- Ensure High availability of the server
- Maintain the ERP application(built on a LAMP Setup)
- Update Security patches
- Update Online ERP Application patches.

Additional Responsibilities:

Research various solutions available for a problem and recommend/implement the right fit.

In charge of maintenance of 4 internal CentOS Servers(1 gateway, 2 mysql master-slave setup)

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 exams:

- 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

Achievements:

- Was a sponsored participant in a 3 day International Conference (ICVGIP02) on Computer Vision Graphics and Image Processing organized by SAC, Ahmedabad and IUPRAI in 2002.
- Jawaharlal Nehru Memorial State level Science Exhibition held at Chennai in 1999 during Higher Secondary School

Team activities:

- Served in Junior Red Cross (JRC) in 1995.
- Served 2 years in NCC from 2000-2002.(B Certificate holder.)
- Served in the Hospitality committee of Mechanical Engg. Association (MEA) during 2001-2002.
- Served as Joint Secretary of MEA during 2002-2003.
- Served as Placement Representative for Mech Dept. during 2003-2004
- Organized and Participated in a 3-day trekking program to Kodaikanal.

Other Trivia:

- Lean towards Free software foundation, when it comes to licensing and patent issues.
- Use DVORAK Layout keyboard.
- Keep coming up with original pithy and nerdy aphorisms/quotes(Future Proverbs :-))
- Vipassana Meditation
- Badminton
- Reading Mythology/Fantasy/Science fiction novels

References:

Dr.Narayanan Srinivasan⁹

Hyperlinks:

1. http://panela.blog-city.com/the_ideal_interviewer.htm
2. <https://sites.google.com/site/anandjeyahar/>
3. http://en.wikipedia.org/wiki/Cognitive_science
4. <http://cbcs.ac.in/>
5. <http://tce.edu/>
6. <http://opencog.org/>
7. <http://en.wikipedia.org/wiki/LaTeX>
8. <https://launchpad.net/~anandjeyahar>
9. <http://code.google.com/u/anand.jeyahar/>
10. <http://serverfault.com/users/64188/anand-jeyahar>

P.S: If i am called for an interview I will assume, you have run, nay read through most of the links.