Sandesh Singh

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D–1, Rameshwar Apartments, Papdy
Vasai, Thane
Maharashtra, India – 401 207

(+91) 966 505 1349
sandesh247@gmail.com
http://sandesh247.com

Work

Senior Software Engineer, Finacus *(Nov 2007 – Aug 2008)*
- part of the company since inception
- helped set up policies related to source control, best practices, and general collaboration
- made a framework for rapid application development in ASP.Net, which primarily consisted of GUI controls, an OR mapping framework based on gentle.net and code generation tools
- played a role in the development of a loan origination system using the above framework
- led the conceptualization and design of a second product using the same framework

Subject Matter Expert, Amdocs *(Aug 2006 – Oct 2007)*
- worked on development of Amdocs 'Rater' module for two successive versions
- traveled to Israel for end–to–end testing of the Amdocs' billing product
- traveled to Russia for production support of the Rater module
- provided training of Rater modules to people from different applications

Engineering *(2002 – 2006)*
- developed the SQL parser and GUI for TDDB (the distributed database) with two teammates
- developed a corporate mailing solution in Java (server + GUI client)
- made a flash based quiz game, used in our annual CSI festival and CSI National convention.
- developed various programs, such as a 3D game in OpenGL, a sudoku solver, websites

Skills

Programming
- worked in C#, C, C++, Java and shell scripting over the years
- worked with Visual Studio and Eclipse, and vi/emacs over ssh
- experimented with Python, Ruby

Web Design
- worked extensively with JavaScript, used 'jQuery' to add desktop–like features to websites
- have working knowledge of HTML, CSS, LaTeX

Database
- worked with SQL Server 2005 and Oracle
- familiar with SQL and OR Mapping techniques with frameworks like Gentle.Net and NHibernate

Study

BE
- %, Mumbai University (Computers)
  Vidyavardhini College of Engineering and Technology

HSC (10+2)
- %, Mumbai University
  Thomas Baptista Junior College

SSC (10)
- %, Mumbai University
  St. Augustine's High School

Play

- was an active member of the CSI, acted as event head for various competitions, and won many prizes as a participant in others
- listen to music
- read books, mostly those recommended by friends
- enthusiastic cricketer, though never selected in team

Responsibilities

@ Finacus   **http://www.finacus.co.in/**

Evolution Evolution was the framework on which the all the products of the organization were built. This framework consisted of a controls library, an OR mapping framework, code generation templates, file conversion utilities etc.

OR Framework
- single entry point to all database operations, based on the front controller approach
- supported auditing facilities, all changes to the database were logged
- used optimistic concurrency control, users would be alerted if they were working on a stale version
- allowed developers to manipulate a database row with minimal knowledge (deserves explanation)

Controls
- controls to perform basic input, lookup–based selection and picklists
- optional rendering of controls based on user authorization
- runtime control over number/types of controls being rendered based on configuration
- controls for multiline (excel–like) editing of values

File conversion API
- supported Excel, delimited text (csv), and databases
- XML based configuration, source and destination columns were configurable at runtime
- supported custom transformations mid–flow

AML AML (Anti money laundering) was the second product which was being made on the Evolution framework. I led the product development until I left the organization. During this period, some of my responsibilties were –

- requirements gathering from the customers
- designing the data model
- design a framework for workflows to support escalation of tasks within an organization

Administrative Responsibilities
- set up source control policies, with some customization of SVN
- took interviews for new candidates in the organization
- evaluated 3rd party frameworks for use in the organization

@ Amdocs   **http://www.amdocs.com/**

Vimpelcom, V17

Vimpelcom is a Russian telecommunications service provider, also known as Beeline. Version 17 was a substantial version for the customer as their legacy processes were being integrated with the new Amdocs product, Enabler. I worked on the Rater module in Enabler, whose responsibility was primarily to 'rate' events (voice, sms, data). My responsibilities in this version were :

- design solutions based on the business requirements
- develop unix processes in C++ / ksh to implement the functionality
- design and execute unit and sub–system tests
- provides production and system testing support

Vimpelcom, V18

My roles were further expanded in version 18, where in addition to the above, I also completed the following responsibilities :

- perform impact assesment analysis of new requirements
- configuration and development of a data migration utility
- execute system tests
- provide production support
- impart training about the 'Rater' module to fellow colleagues

@ Engineering

TDDB TDDB was a final year project undertaken by three groups belonging to three different colleges. TDDB is an acronym for **T**he **D**istributed **D**ata**B**ase. It was a functional RDBMS, with support for many SQL statements, like SELECT, INSERT, CREATE TABLE etc. The responsibilities of the three colleges were to develop the storage engine, the parser, and the distribution mechanism. Our group developed the parser and the gui interface for the engine. More information can be had at http://tddb.sourceforge.net/.

My responsibilities in this project were :

- design the parser in flex/bison
- design C++ data structures to interact with the storage engine
- optimization of queries
- development of a front–end in QT

OXEON OXEON was intended to be a corporate mailing solution. It consisted of a mail server and GUI client. It used cryptographic libraries from the 'Bouncy Castle' project to provide security.

Book Xchange This was a website developed as a part of the curriuculum, which intended to facilitate exchange of books among students. Students could put up books for exchange/sell with an asking price, and could also request books. However, no mechanism of payment was provided.

Awards and achievements

- Received accolades and special bonuses while working in Amdocs DVCI
- Won 1st place in programming contest in the CSI fest at my college (2006)
- Won 1st place in a 'Mock Recruitment' competition in CSI annual fest at our college, and 2nd place in 'Mock Interview' in the annual cultural festival (2005)
- Won 1st place in programming contest at Vivekanand Institute of Technology (2005)
- Gave a seminar on OpenGL (3D graphics API) at Touchstone '04
- Won 2nd place in a web–designing contest in CSI National Convention (2003)

Extra curricular activities

- Acted as event head for various events held in college
- Technical adviser for college CSI branch, and editor of the college monthly

Personal Information

Full name Sandesh Sankathaprasad Singh

Date of birth July 22nd, 1984

Gender Male

Languages Hindi, English

Marital Status Single