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EDUCATIONAL QUALIFICATION

Master of Science in Computer Science - University of Southern California, Los Angeles, CA, USA GPA – 3.64 / 4.0 May 2010

Bachelor of Science in Electrical Engineering - University of Mumbai, Mumbai, India GPA – 3.9 / 4.0 June 2007

RELEVANT COURSEWORK: Software Engineering, Software Architectures, Database Management Systems, Analysis of Algorithms, Web Technologies, Computer Networks, Computer Systems Modeling, 3-D Graphics and Rendering, Digital Communications, Data Encryption

TECHNICAL SKILLS

- Languages: C, C++ , Perl, PeopleSoft Financials
- Testing Tools: Quality Center, Bugzilla
- Web Development: HTML, CSS, Ajax, XML, PHP, APACHE 2.2, TOMCAT 4.1
- Database: Oracle 9i, DB2, SQL Server 2000/2005, MS Access
- Operating Systems: UNIX, Linux, Windows
- Others: Rational Software Modeler, Microsoft Visio, COCOMO (Project Cost Estimation), Lotus Notes, MS Project, MS Office

WORK EXPERIENCE

Alcon Laboratories, Inc., Irvine, CA – Software Validation & Verification Engineer (Intern) (8 months) Jan 2010 - Current
Environment: HP Quick Test Pro (QTP), Serena Version Manager, PVCS Tracker

Responsibilities:

- Performed system level software validation at on Cataract & Vitreoretinal surgery machines like Constellation & Infiniti Vision Systems.
- Develop automated test scripts using QTP for automated testing and maintain them for the new builds of software
- Performed Test Case reviews, manual and automated system testing, functional testing and end-to-end testing of the application.
- Recording, Reporting and Tracking of defects using PVCS tracker through the entire test life cycle.

Volgatech – Software Engineer Intern (3 months) May 2009 – Aug 2009

Environment: Microsoft Visual Studio, Oracle 9i, Quality Center

Responsibilities:

- Involved in drawing up the system and software requirements for feature enhancements of company's networking portal bizhands.com.
- Involved in the planning, design, specification architecture phases for the features of the web portal
- Developed prototypes for the website using the .NET framework.

HSBC Software Development Center – Software Engineer (1 year) July 2007 – July 2008

Environment: PeopleSoft Financials 8.9, Quality Center, Oracle 9i

Responsibilities:

- Responsible for maintaining and updating of project documentation such as requirements specifications, defining the operational concepts and system software architecture description.
- Resolved defects and bugs reported by the testing team involving the functionality of the system.
- Performed Unit testing including functional, usability, data integrity, GUI and performance testing of various modules of the system
- Conducted Data Integrity tests using SQL test scripts to unearth Database related defects
- Prepared Bug Reports capturing Defect Summary, Defect Description, Severity, Priority etc using Quality Center

PROJECTS

AROHE Web Development – Project Manager and Requirements Engineer for the team. Fall 2009

- Responsible for planning and execution of the project life cycle and project cost estimation.
- Developed strategies for **Software Development Life cycle (SDLC) models like Agile, Waterfall, V-Model**
- Responsible for risk assessment and preparation of mitigation plans for these risks to develop a new website for AROHE with increased features and functionality.
- Created and maintained project documentation such as requirements specifications, operational concepts and life cycle planning.
- Designed component based models with Unified Modeling Language (UML) using Rational Software Modeler.
- Involved in designing the GUI, optimizing graphic and navigational elements using **PHP** to represent client's style and migration of the database from **MS Access to MYSQL**.

Universal Code Counter – Directed Research under Prof. Barry Boehm Fall 2009

- Developed feature to convert the current output of the code counter to .DAT format in **Visual Studio**. Attended weekly scrum meetings for setting goals and reporting project status.

Computer Graphics – L-Systems Implementation

Fall 2009

- Visualized, simulated and generated 3-D models of plants, trees and other fractal forms using **VC++** and **OpenGL** to create realistic images of modeled structures for animation and games.

Spatial Database Application

Spring 2009

- Created USC Transit system using **Oracle DBMS**. Developed an ORDBMS that allows a user to find the location of trams, students, stops and various routes on USC map. Utilized Oracle data types, **Mysql & SQLplus** to query the database.

Web Technologies

Spring 2009

- Created a **mash-up** between Google maps and Flickr using **AJAX and JAVASCRIPT**. To implement a Google Maps interface to the Flickr public image database, a combination of HTML, JavaScript and Java Servlet programs was used.
- Created a web site using **PERL SCRIPTING** and **JAVASCRIPT** to provide a visitor the ability to compare “Sponsored Links” and “Sponsored Sites” from Google.com and Live.com, for a particular search query.

UNIX Socket Programming

Fall 2008

- Simulated a self-organizing network of stand-alone mobile nodes in a race to find a target in a Client/Server environment using UNIX Sockets in **C/C++** using **TCP and UDP Sockets**.