

Nandita Bharadwaj

Senior Design Engineer

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Java Engineer

Authorized to work in the US for any employer

Work Experience

Senior Design Engineer

GE Healthcare - Bangalore, Karnataka

January 2006 to June 2008

Cross Business Workflow (CBW): Cross Business workflow is a workflow project which aims at integrating two applications PACS from Dynamic Imaging and AWE 3D component. Responsible for the front-end applications integration. - Understanding the system by code walk-through and demo, documentation - Use case for the integration design, prototype development to integrate AWE and RA1000 (GE PACS)

OEC (GE healthcare Surgery) assignment (in Salt Lake City, Utah, USA):

Challenging assignment to support OEC team for their FDA re-audit- understanding the OEC quality process, completed tool-validation of 2 tools to comply to FDA norms.

Union Jack (UJ) Spine: 'Spine' is a component, which adds security features (authentication, authorization with access control on specific actions) to Centricity PACs. It's a software interface developed between the National Health Services (NHS of UK) webservices and PACS to provide better integration.

Responsible for MT - Middle Tier (MT) of Spine.

1. Owned and successfully completed on-time implementation of HL7 messaging of Message Handling Service (MHS) (from scratch) which is a part of Union Jack (UJ), a \$500 million time-critical UK PACS program.

2. Completed the scrum and main releases of MHS deliverables on-time which helped other subsystems to test this critical feature on-time as per program plan. In order to achieve this-

- Integrated the authentication model of PACS to JAAS framework.
- Efficiently interacted with National Health Service (NHS) of UK for better understanding of Spine interface.
- Upgraded from Axis Beta to Axis 1.4 on the Application Server, Orion and clients to ensure efficient web services.
- Used ANT to rebuild code of Xerces jar.
- Developed a prototype using Java APIs like JAXM, JAXP, JAXB, XMLSpy (proactively learnt all these new technologies).
- Worked closely with global Engineering teams in development and design activities.
- Actively learnt HL7v 3.0 and developed a full - fledged component on HL7 (Health Level Standard).
- Used different test tools like MTH and OMVT provided by client to Unit-test the developed component.
- Developed test cases and subsequently unit testing of the modules implemented.

- Ensured the quality of MHS deliverables through independent code-reviews & code re-factoring of third party components, which made the design scalable and obtained cost savings for future implementation.

Platform: 3-tier model on Solaris and UNIX platforms with Sybase as database.

Centricity-2-Centricity Component: C2C is a component, which uses web services framework provided by Sun to send medical images or examination from one Centricity application to another. Centricity is the application that was used by doctors to view images of patients and suggest solution for the same. Web services used was Axis?

Sub System owner / Individual contributor of C2C Component-Learnt the vast client based application & architecture through self-learning, fixed subsequent number of bugs, helped DAS team for performance measurement with Jprofiler.

Platform: 3-tier model on Solaris and UNIX platforms. Java on J2EE used as languages.

Software Engineer

Datacard Software India Pvt. Ltd

December 2003 to January 2006

Syntera: Syntera is a Card Issuance Application, enterprise software to create a repository and to print the secure cards at high speed. Syntera has numerous GUIs to help user customize data and the design of the card. Card design and data specifications are designed in layers so that the user has full control. Security of the user details is given utmost preference. User management, Error handling and configuration GUIs support to manage the application.

Responsibilities / Achievements: Front-end developer of Performance critical IPS component.

- Designed and developed numerous GUI using Core Java, Swing.
- Efficiently re-factored the IPS component.
- Developed toggle between two windows using JNI.
- Dealt with major issues with Swing and multithreading.
- Effectively used Singleton, Observer design patterns to code.
- Successfully solved memory issues and performance issues.
- Participated in performance testing and analyzing performance of the IPS component.
- Measured performance using JPurifier.

Platform: Server- client model. Clients - OS2 system, Server - Windows 2000/2003 server. Syntera is distributed software - server client model that will deal with high performance and high volume of products - around 2 million cards in the database. Oracle supports as backend and CORBA deals with the interfacing. XML is also used to cache details when required.

LinkedIn profile and for more projects and work exp: <http://www.linkedin.com/in/nanditak>

Education

Computer science certificate in Computer science

Ohlone community college - Fremont, CA

2011 to 2013

Multimedia Certificate in Web Site Design and Graphic Design

Ohlone community college - Fremont, CA

2009 to 2011

Bachelor of Engineering (B. E) in Computer science

University of Mysore - Mysore, Karnataka
1997 to 2001

Skills

UI Developement, Java application developer, Middle tier Java development, Web Services coding, Web site development with HTML CSS PHP MySQL, Graphic Design, Software Engineer

Additional Information

COMPUTER SKILLS

Languages: Core Java, Java - Swing, XML, Web services, PHP, HTML, CSS

Design: Strong in OOAD concepts, familiar with UML.

Database: PL/ SQL, and knowledgeable in Oracle, Sybase.

Operating Systems: Worked on Windows NT, Windows XP, UNIX and Linux

GUI: Swing (with multithreading), HTML, CSS

Application Servers: Orion, Tomcat

Tools / Middleware: Adobe Dreamweaver, Java XML Technologies (JAXM, JAXB, JAXP, DOM), JNI, Rational Rose, XMLSpy, Eclipse, DOORS, FrontPage 2000, PVCS Tracker, Flash 5, Xara web Style, Photoshop, MS Excel, MS Word, ANT

Versioning tools: ClearCase, WinCVS