Vani Murarka - Resume

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Education

- Masters in Computer Science – The University of Iowa – (Dec 2009). GPA: 4.0
- M.Sc. (Information Technology) – Annamalai University (June 2006)
- B.Sc. (Physics Hons.) – Presidency College, Calcutta University (1993)

Professional Experience

- Graduate Research Assistant; Charlotte Visualization Center; August 2010 – present
- Application Developer; The University of Iowa; Jan 2007 – August 2010
- Technical Architect and Business Analyst; eMids Technologies; June 2003 – June 2007
    - Solution and architecture design for several projects in Data Warehousing, Business Intelligence and Field-force Automation.
    - Requirements gathering and consultation for various projects and pre-sales needs.
    - Initiated & led the "TechGroup" for learning new technology & distilling project learning.
    - Guiding and mentoring team members.
    - SEPG Core Member for CMMi implementation
- Founder, Consultant; Manaskriti Software Solutions; Nov 95 – May 03
    - Sales, Requirements Gathering, Design, Software and Website Development
    - Introduction of Mailing Lists into India. Provided consulting services to some top online media companies in India on running discussion groups and newsletters using list servers.
    - Launched and ran the first discussion list called Interact-Inn All India Mailing List for netizens in India. This was popular for several years and was covered in several publications in the print media.
    - Launch of the first Hindi Poetry site on the web [www.kaavyaalaya.org]. This website continues to be active and is today one of the most respected publications in the world of online Hindi Literature.
- Project Trainee; CMC Limited; Mar 95 – Oct 95

Expertise

Technical Domains

- Data Warehousing / Business Intelligence
- Business Analysis / Requirements Gathering, Definition, Management
- Application Design and Solution Architecture Definition
- Interface Design
- Web and Desktop based enterprise applications
- Database Design / OLAP Design
- Collaboration Portals
- Mobile Applications

Software Engineering Process

- CMMI – key member of CMMI implementation team at eMids Technologies
- SEPG Core Member at eMids Technologies

Technologies / Languages

- C++ / .NET Framework / C#
- SQL Server / SQL Server Analysis Services
- Graphics: OpenGL / SVG
- Java / Adobe Flex
- PHP / MySQL / DHTML / CSS / Javascript

Application Domains / Industries

- Field Force Automation
- Forex and Treasury Management
- Healthcare Insurance
- Music Industry and Digital Media
- Non-destructive Examination
- Recruitment

Selected Project Summaries

ETL / Data Warehousing / OLAP / Business Intelligence / Information Portal Projects

Financial Performance Benchmarking API, Atlanta

This system pulled together financial and demographic data of a large number of companies into an OLAP database via an ETL from the base relational data repository. This OLAP database was then used for data analysis such as benchmarking of company's financial performance vis-à-vis that of other companies having similar demographic attributes. A standard set of analysis models were exposed from the OLAP as an API that could be consumed as a web service.

My role: Designed the complete solution for ETL, OLAP and API. Implemented the solution with team members.

Platform: SQL Server 2000 Analysis Services, MDX Queries, C#.NET, ASP.NET

Enterprise Information Portal, Atlanta

Sharepoint based Information Portal / Reporting Dashboard which reported data from the Enterprise Data Warehouse. The Data Warehouse compiled data from disparate sources of the of the service department of the company including their main System21 legacy database, Lotus Notes database and Excel sheets.

My role: Data Analysis of legacy data structures, complete design of the ETL to load the Data Warehouse and the Reporting Framework, ETL development, customer training and hand-over.

Platform: SQL Server 2000, DTS Packages, C#.NET, ASP.NET, Reporting Services, Sharepoint

Field Force Automation Projects

On-field Data Capture and Reporting for Pipeline Integrity Examination, Houston

A three-part system consisting of
1. PDA Smart Client Application to capture non-destructive pipeline integrity data at the excavation site
2. Application to receive data from the PDA and generate engineering drawings based on data captured.
3. Web application for the server at the head office to compile data from all sites and projects, generate project reports and disseminate to customer.

My Role: Complete requirements gathering, technology selection, architecture and design of the system. Development with team members.

Platform: .NET Compact Framework, .NET Framework, C#.NET, SVG, Crystal Reports, SQL Server CE, MSDE, ASP.NET, SQL Server 2000

Field Force Automation Web Application, Oregon

Generic web and pager application for field force automation for service personnel

My Role: Contributions to database design. Development of most of the web application sections, including barcode generation, job scheduling and html-based Gantt chart generation.

Platform: Perl, PHP, MySQL

Enterprise Applications

I have been involved in the development of several applications of various kinds - web applications, desktop applications, enterprise applications. For example:

- Financial Windows App to send and receive payment transactions from Swedish Interbanking service via secure web services
- Web based enterprise application for Real Estate firms
- Windows desktop application for Insurance enrollment and Web portal for Insurance Benefits Management for Broker firms.
- Back-office Treasury Management application for the Forex division of corporate firms.
- Windows desktop application for schools and recruitment consultancy firms

My role in these engagements has covered requirement gathering, architecting, application and DB Design, guiding team members, coding, maintenance and documentation.

The platforms range from COBOL, PowerBuilder, Sybase, Visual Basic, MS Access, ASP, SQL Server, .NET Framework.