PRAVIN ASAR

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Multi-faceted, resourceful software professional with distinguished and proven ability to meet corporate objective tied to business and technology performance. Spearhead teams in the design, re-design and launch software solutions and products with record setting accuracy. Able to build solid relationships with strategic partners as well as consensus across multiple organizational levels.

technical/non-technical skills

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| Project Coordination & Leadership  System & Business Analysis  Research & Planning  Estimating & Scheduling  Continuous Process Improvement  Creative Problem Solving | Software Architecture  OO Programming  Application Development  Software Integration  Quality Management  Numerical & Optimization Algorithms | Public Speaking  Technical Support  Team Mentoring  Collaboration  Event Planning |

General Software Skills:

**Software architecture/design, OO programming, C/C++/MFC/Visual C++ on WINDOWS, Visual C#.NET,**

**C /UNIX, Debugging Tools, Source control tools (15 years),**

**UML/WEBML Tools, Database Design Tools, Microsoft Project/Visio**

Internet and Web Technologies:

**ColdFusion, Flex, Java, JavaScript, XML, HTML/XHTML/CSS, T-SQL, XML/XSLT, FTP/HTTP, AJAX/JavaScript libraries, VBScript, PHP, Firebug/ColdFire, Eclipse based IDES (Flex Builder, Aptana Studio), IIS Web Server, Apache Web Server, MS SQL Development Studio, MySQL Admin/Query Tools, Altova XMLSpy Suite**

Databases:

**MS SQL Server, My SQL Server, Oracle, MSFT Access**

2D/3D CAD/VECTOR Data Exchange standards:

**IGES, DXF, SET, STL, VRML, SVG**

Other languages (used in past):

**FORTRAN, Lisp**

**Unigraphics/GRIP/GRIP-NC**

Third party SDKS:

**Unigraphics/UFUNC, Unigraphics/IMAN, VXQM/Utility Library, Windows Platform SDK**

PROFESSIONAL EXPERIENCE

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| --- |
| **SAIC**  *Public Company; 45,000 or more employees; scientific, engineering, and technology applications company*  **Senior Systems Software Engineer 10/2009 -Present**  Lead the team of engineers responsible for Ground Operations Planning Database (GOPDb) software for NASA.   * Prepare technical proposal based on the vision statement. * Prepare the software development project plan in consultation with NASA/KSC. * Translate the project vision statement into software requirements. * Research and identify the technologies, software development platforms, best practices. * Collaborate with NASA’s IT staff to procure and setup requisite hardware and software environment. * Architect and Design software solution. * Conducted developer meeting to discuss network configurations, development issues, task allocation, review programming techniques and feedback on code reviews. * Established the best practice procedures. Utilized source code control tools to maintain application builds. * Track, change project requirements and timelines. * Mentor the junior members of the web development team     **Technologies Used**: ColdFusion 9, Flex3/4, Java, JavaScript, XML, SQL Server 2008  **VX CORP**  *Privately Held; 11-50 employees; Computer Software industry*  **Lead Software Engineer** |

With VX Corporation I had dual responsibilities (Web applications and CAD/CAM software development).

**Web applications architect 04/2008 -07/2009**

Lead the ColdFusion 8 application migration, implementation and application architecture improvement initiatives for VX Corporation. Mentor the junior members of the team.

* Planned and lead migration of business critical applications from ColdFusion6/SQL Server 2000 to ColdFusion 8/SQL Server 2005. Re-architected applications utilizing AJAX features of ColdFusion8. Optimized the T-SQL queries and stored procedures. Improved the application performance by use of cached Coldfusion queries. Implemented SQL Injection protection.
* Effectively migrated databases from SQL Server 2000/Microsoft Access to MS SQL Server 2005/MySQL 5.
* Mentored development team to develop new applications, namely VX Store (using SiteDirector storefront), VX product download and evaluation application, VX QUOTE web application.
* Created required ODBC connections with Finance and GoldMine CRM databases.
* Developed and used ColdFusion components.
* Planned and lead other IT/Web Application Systems migration (MySQL/PHP technologies).
* Worked with graphic designer to implement richer multimedia experience.

**Application Architect (VX Lathe) 04/2008 – 07/2009**

* Architect and developer of VX Lathe/Turning software module. Developed geometry processing and tool path generation and optimization algorithms, GUI, 2D/3D visualization framework, using C/C++.

**Applications Architect (e-CAD/CAM Tools) 05/2007 – 03/2008**

* Architect and developer of collaboration tools, utilizing XML/XSLT and Visual C++. Developed custom web-browsers using ActiveX/COM components. Created VX CAM/CAM Reporting application, using C++/ XML/XSLT.

**Application Architect (VXQM Product Integration) 02/2003 – 04/2007**

* Lead the product integration of VX flagship product module (VXQM). Researched and developed prototype application for the optimal and transparent integration with this product module. Developed GUI, 2D/3D Visualization tools, and interprocess communication tools using Visual C++ /XML.

**Team Lead (Web application) 10/1998 -01/2003**

* Drafted the proposal to outline utilization of web technologies with VX CAD/CAM product, HR, Sales and Customer Relations.
* Evaluated the web technologies and applications.
* Worked with managers to assess application needs, priorities and ROI.
* Worked with project stakeholders to ensure accuracy and quality.
* Handled SDLC of Product Change Request (PCR) application
* Handled SDLC of VX product license generator application
* Handled SDLC of VX Project Management application to monitor the task lists, status monitoring.
* Handled SDLC of Issue tracking system for manage the VX products pre-release issues.
* Implemented VX User Forum
* Evaluated and implemented Web-EX, as remote product demonstration and support tool.
* Conducted developer meeting to discuss network configurations, development issues, task allocation, review programming techniques, and provide developers feedback on code reviews.
* Established the deployment procedures. Utilized source code control tools to maintain application builds.
* Lead the development team in meeting project requirements and project timelines
* Coordinated and estimated time for task list with development team

**Application Architect (VX Parts Nesting) 08/1996 – 09/1998**

* Architect and developer of VX Parts Nesting software module. Developed geometry processing and heuristic and optimization algorithms, GUI, 2D/3D Visualization framework, using C/C++.

**Tata Consultancy Services (TCS), India**

*Public Company; 10,001 or more employees; TCS; Information Technology and Services industry*

**Systems Analyst and Software Consultant 08/1988-07/1996**

* Rapidly promoted through roles as Systems Analyst to Software Consultant and project leader due to excellence in IT and software projects for business partners and clients across the globe (GE, EDS/UGS). Contributed to company’s growth by seizing opportunities with clients. Managed onsite team, coordinated project efforts with offsite team.

Some of the major projects:

Client: GE Power Systems

Project: GADP (Generator Automation Design project)

Brief Description: Major contributor to GADP project architecture. Designed and developed custom

CAD/PDM productivity tools to aid this project. Manage TCS team of engineers working at GE.

Client: EDS Unigraphics, France

Project: UG/SET Translator

Brief Description: Handled SDLC for UG/SET Translator Module, Managed TCS’s team

Client: RAIL COACH FACTORY (RCF), Kapurthala, Punjab (India)

Project: DNC System Development

Brief Description: Handled complete lifecycle of custom DNC System. Managed project team

Client: BAJAJ AUTO LTD, Pune

Project: SDRC/UG Translator

Brief Description: Develop custom SDRC to UG translator, helps them migrate from IDEAS/SDRC to UGII

Client: RDE (Research Development Establishment), Pune

Project: Kinematic Analysis

Brief Description: Developed custom CAE programs (C/FORTRAN) to perform kinematic analysis and

simulation for mobile bridge systems.

**Bajaj Tempo Ltd, India**

*Public Company; 5001-10,000 employees; Force Motors; Automotive industry*

**Senior Engineer (R & D) 02/1987-08/1988**

* Developed custom design, analysis and simulation programs for
* Vehicle Traction Analysis and Simulation
* Vehicle Steering Mechanism and Simulation
* Vehicle Suspension system analysis and simulation
* Bearing design and slection program

**Bajaj Auto Ltd, India**

*Automotive industry*

**Graduate Trainee Engineer 08/1984-08/1985**

Completed a training program in Tool Design and methods planning. Responsible for methods planning of gear train components.

Education and training

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| MS (Mechanical Engineering) | Indian Institute of Technology, Bombay, India | 1987 |
| Business and Systems Analysis | Tata Consultancy Services | 1990 |
| Certificates in ColdFusion, XML, HTML,  JavaScript, e-Commerce Concepts | BrainBench | 1999-2002 |

Professional achievements

* Recognized by management for innovation and outstanding performance.