**SHUBHA CHAKRAVARTHY**

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## SUMMARY

Experienced Software Engineer/Leader adept at designing state of the art solutions and enhancing legacy systems using new technologies. Committed to improving business productivity and efficiency. Specializes in applying technical expertise to develop insightful solutions applicable to current business practices. Experienced in working directly with customers. Experience includes software development for medical devices. Worked with multiple relational databases. SQL experience writing stored procedures, triggers etc. Worked on all phases of the SDLC. Familiar with agile and waterfall approaches. Very interested in working on machine learning and data science projects. US Citizen. Available for travel.

**CAREER CONTRIBUTIONS**

* **Leadership**: Was member of the Management at Newt Global Consulting, a multimillion dollar IT consulting firm in the DFW area reporting to the President. Put two software systems in production within two months of joining. Led all IT initiatives in the company. In other organizations, managed development groups comprising of multiple developers on re-engineering legacy software and other software development projects.
* **Innovative**: Influenced decision to make cost-saving & state-of-the-art operational changes at Newt Global. Achieved major development group level savings resulting in significant corporate level savings at Abbott by planning and implementing a software re-design initiative. Gained support from senior executives to start and sustain the initiative. Worked alone on the POC to demonstrate the Object database backend to SQL Server conversion without affecting the remainder of the product.
* **Speed & Agility**: Reduced System down time by several hours by designing and developing a new approach to database conversion for product upgrades and participated in the software componentization task to improve build efficiency at Abbott.
* **Team Efficiency**: Improved Team Morale by initiating - Technical Brown Bag Seminars with invited and in-house speakers for Abbott software engineers across sites to keep abreast with technological advances/research and identify in-house hidden talent. Represented the Architecture team in a geographically dispersed environment and made concept review presentations.
* **Industry Expertise**: Telecom, Supply Chain, Medical Devices and Real-time Television Automation.

**SPECIAL RECOGNITION**

* Winner of the Site VP award for participating in designing & developing the Inaugural Leadership Forum at Abbott. Presented case study on Vision and Strategy.

**Professional Experience**

**Consultant at Self Current**

Seeking consulting and fulltime opportunities involving relational database development including migration from other models to relational, data access software, ETL. Interested in cloud based development tasks, machine learning/data science. Available for software development management. Experienced medical device software engineer.

Isis-Papyrus America Inc., Southlake, TX May 15, 2017-June 15, 2017

Fulltime consultant. Worked on product installation, configuration and in-house demonstrations of their process and communication platform components.

**Newt Global Consulting, Irving TX 2009-2010**

**Director – Development & Delivery**

**Broad-Based, Bi-Shore IT Consulting Company.**

Was the technical Account Manager of one of Newt’s Premier Accounts-Verizon. Also served as Project Manager. Managed in house technology initiatives and worked closely with executive management in defining policies and initiated new strategic areas of product development. Spearheaded development and delivery efforts while Newt Global continued to grow & participated in strategic decision making and other development activities. Was an active participant in developing technical performance, general HR & other policies. Served as the internal consultant automating processes & implemented lean & best practices. Planned, supervised and directed in-house web based software development projects with multiple developers in the LAMP, .NET and Windows SharePoint Server environments. Led SVN setup in the company. Delivery responsibilities included IT consultant/in house staff recruiting activities, RFP responses, oversee staff consultant activities of geographically distributed projects. Collaborated with off shore based VPs, Recruiters & managed off shore based consultants.

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**Abbott Laboratories -** Irving TX **2001-2006**

**Senior Software Engineer**

Responsible for the design and development of the relational database backend, data access software, XML based ETL methods and Schema migration of Abbott’s Medical Diagnostic Product ARCHITECT.

Major Tasks accomplished:

* Successfully launched the ARCHITECT software with MSDE (Desktop version of SQL Server 2000).
* Researched several Object-Relational Mapping tools and developed system prototypes using **ObjectSpark**. Included Data Modeling.
* Prototyped the Database Interface Component using various data access methodologies such as native **OLE DB**, **OLE DB Consumer Templates** and **ADO**. Implemented the data access interface using **OLE DB** and **Visual C++ 6.0**.
* Designed and developed database schema generation Archetypes using Abbott proprietary language.
* Designed and developed SQL Server scripts for database creation.
* Designed and developed SQL Server utilities for **Backup** and **Restore** using **SQL-DMO** (Distributed Management Objects).
* Enhanced the database conversion Dump Utility to export ObjectStore data into **XML** files for use with SQL Server.
* Designed and Developed the **BulkLoad** Utility using the SQL Server 2000 **XML** Component and XSD Schemas. Also implemented database conversion scripts.
* Made SQL Server, OLE DB and database component presentations to the group and other software groups in Abbott.
* Was involved in the team Generic SCC activities which included working with Object Analysis and Build Models in ObjectBench, translation, generation and building of model based software, participating in code reviews, group discussions etc.
* Participated in team activities involving MDA using ObjectBench and Rhapsody.

**i2 Technologies -** Dallas, TX **2000 - 2001**

**Development Manager**

Hands-on Manager with demonstrated ability to manage effective project teams to meet objectives. Major liaison between Product Management, Development, Change-Control Board and Quality Assurance. Managed day-to-day operational needs of the TradeMatrix Platform (Core, Catalog and M2B) teams and worked with peer managers to ensure the on-time delivery of the product. Project Management tasks included project planning, resource management, requirements analysis, design reviews, interviewing and interfacing with other groups.

* Managed the non-native catalog integration and internationalization of pertinent components resulting in the first major Asian Tradematrix client.
* Managed the TradeMatrix implementation for Rubber Networks Corporation, successfully meeting key go-live deadline.
* Managed the TradeMatrix implementation for iStarExchange, meeting client specifications.
* Managed the automated Testing Framework implementation, meeting accelerated deadline.

In the role of **Advanced Member Technical Staff**, participated in hands-on development tasks involving usage of messaging technologies such as IBM’s **MQSeries**. Prototyped an EAI server in the **WebLogic** environment using **EJB**. Installed the TradeMatrix 5.05 system and all third party software.

*Roles in other organizations included Manager, Advanced Systems Design at Florical Systems****,*** *Systems Analyst at Info Tech, Gainesville FL, Consultant at Software Technology, a Motorola subcontractor, Software Engineer at Motorola Codex and Honeywell Bull. Student intern at the Knowledge Engineering center Honeywell Bull.*

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##### TECHNICAL SKILLS

Languages

|  |  |  |
| --- | --- | --- |
| * Java | * COBOL | * Python |
| * Visual C++ /C | * Smalltalk-80 | * PHP |
|  |  |  |

Operating Systems

|  |  |  |
| --- | --- | --- |
| * Windows 10, 7 | * OS/2 | * MVS/CICS |
| * MS-DOS | * Unix | * VMS |

DBMSs

|  |  |  |
| --- | --- | --- |
| * SQL Server | * DB2 | * Btrieve Workstation Engine 6.15 |
| * Oracle 8i,7 | * MySQL | * Interbase |

Other Packages

|  |  |
| --- | --- |
| * Rational Rose | * Objective Grid |
| * Rhapsody * ErWin | * ClearCase * Visio |
|  |  |

###### EDUCATION

Master’s Degree, Computer Science, Boston University - Boston, MA

Completed course work in Computer Science and Business Management – University of MD, College Park, MD

B.Sc (Chemistry/Subsidiary Zoology), University of Bombay

###### Professional Development

Abbott’s Mid-Level Leadership Course – Set Vision and Strategy

Abbott Laboratories Customer Systems Engineering – ci8200 course (54 hrs)

Crucial Conversations – By Vital Smarts for improved group learning, problem solving, decision making and relationship building in the workplace, the home and the community.

Programming a Microsoft SQL Server 2000 Database

Course on Agile Methodology

Intensive Java

Real-Time UML with Rhapsody in C++

Using Test Director 8.0

Object Oriented Development of Large Distributed Systems, Motorola Inc.

Database Administration I, Oracle Corporation

Database Administration and Programming of Interbase, Interbase Corp.

C++ at Work, Wang Institute, Boston, MA

###### AWARDS

Winner of the Site VP Award for contributing to the design and delivery of the inaugural Leadership Forum to the Abbott Dallas Site - April 2005

Winner of the Product Process Improvement Award - 2004

iLC Certificate of Excellence for outstanding and lasting contribution - June 28, 2004

Winner of Department Level award at Abbott

**Volunteer experience**

Current volunteer at the Bedford Public Library, Bedford TX. Previously volunteered for the Relay of Life (American Cancer Society)