**Brajmohan Saxena E-mail:** [brajmohan.saxena@yahoo.com](mailto:braj.saxena@gmail.com)

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To be actively involved in responsible roles in the organization that can positively contribute to the growth of the organization and contribute to organization’s efforts to accomplish goals set within a given framework. Actively communicate and coordinate with other engineering teams and team members, providing constructive inputs and timely feedback. Predominantly worked as an individual contributor role in product development organizations.

**PROFILE SUMMARY**

* Total 9 Years of experience in **Software** **Product Development and Maintenance**.
* Mostly worked in **Design, Development and Maintenance of Database Products** including Oracle’s MySQL Server, IBM’s DB2 and Vaman DataServer.
* Strong exposure in **Database Internals(DB Internals)**
* **Strong knowledge of C, C++ programming on UNIX (AIX), LINUX and Windows OS.**
* Good knowledge of **Data Structures and Algorithm, Shell Script and Performance Engineering**.
* Having good knowledge of **OOPS** concepts.
* Experience in complete software development through design, coding, testing, integration and deployment of **Database Product Development** projects.
* **Excellent analytical and problem solving skills.**
* Good hands on experience in development of platform service applications through multi-threaded programming using **POSIX** compliant **IPC**.
* Demonstrated high performance standards, attention to deadlines, Quality of work.
* Experience in **AGILE(SCRUM) Methodology** of working
* Ambitious programmer/analyst with proven ability to learn quickly and apply knowledge effectively.

**TECHNICAL SKILLS**

Languages : **C C++** Shell Script SQL

Platforms : **Unix Linux Windows**

RDBMS : **Database Internals, MySQL, DB2**, **VAMAN DataServer**

Methodology : Agile, FSM (Finite State Machine) Logic, **Data Structures and Algorithm**

Others : GDB, DBX, IDE, Bazaar version control, Clear Case, VSS, SVN, Valgrind, JIRA

**EDUCATION**

* **FPGDST** (Full Time Post Graduate Diploma in Software Technology) Year 2001.

From **CDAC** (Formerly National Centre for Software Technology (**NCST**)), Bangalore (Karnataka)

* Bachelor of Science in Mathematics (B. Sc.) Year 1996.

From **Devi Ahilya University (DAVV),** Indore (M.P.)

**PROJECTS SUMMARY**

**UST Global ( Dell International Client ) From June 2013 till date**

**Designation : Senior System Analyst**

**Role**  **:** Individual Contributor

**Environment** **:** C, C++, Linux, SVN, Valgrind, JIRA

**Team Size :** 15

**WORK PROFILE**

Working with the core development team in India and remote located team in US for Dell security product called Secureworks. Standard security technology used for establishing an encrypted link between a web server and a browser. This link ensures that all data passed between the web server and browsers remain private and integral. Optimizing the portal code for Secureworks customers.

**PROJECT DETAILS**

Dell SecureWorks is a security product of Dell which provides world-class IT security services to help organizations of all sizes to protect their IT assets, comply with regulations and reduce security costs.

**Oracle Ind Pvt Ltd, Bangalore From July 2011 – August 2012**

**Designation : Senior Software Engineer**

**Role**  **:** Individual Contributor for development and maintenance of MySQL Components

**Environment** **:** C, C++, Linux, Windows IDE, Bazaar Version Control, Valgrind

**Team Size :** 12

**COMPANY PROFILE**

Oracle Corporation is one of the leading software product development organizations. Working as a Senior Software Engineer in one of the Oracle’s open source database product called MySQL database server.

**WORK PROFILE**

Working as a part of one of the MySQL database server development team called server general team. Server general team is responsible for development and sustenance of MySQL database engine. Predominantly worked in enhancement and bug fixing of Federated and Innodb table partition storage engine of MySQL database server.

**PROJECT DETAILS**

MySQL server is one of the best open source RDBMS product combination of different storage engine like Myisam, Innodb, Federated etc. The MySQL database software is a client/server system that consists of a multi-threaded SQL server that supports different backends, several different client programs and libraries and a wide range of application programming interfaces (APIs).Its speed and security make MySQL server highly suited for accessing databases on the Internet. MySQL server has embedded multi-threaded library that you can link into your application to get a smaller, faster, easier-to-manage standalone product**.**

**Maple Infotech Pvt Ltd, Noida From October 2009 – April 2011**

**Designation : Senior Software Engineer Role** **:** Design, Development and Maintenance **Environment :** C, C++, Linux, Shell Script **Team Size :** 8

**COMPANY PROFILE**

Maple InfoTech is a company that provides enterprise statistical analytics and engineering simulation software products, Solutions and services. The company involved in development of social cum commercial network portal.

**WORK PROFILE**

As an individual contributor I got a very good opportunity to work on research and implementation of NoSQL database for social cum commercial networking site for fast data retrieval. As a part of development team I was also involved in implementation of GUI for various hardware devices of different categories using the C++ Standard Class Libraries. The project includes development and testing of all the middleware components used by various XML modules.

**PROJECT DETAILS**

**Social cum Commercial Network Portal** The goal of the project is to involve the social network site users to engage in business and brand with his own interest. It also takes care on behalf of users like what type of messages they want to receive and how often they want to receive. Users are rewarded for their engagement with points that can be used towards discounts and offers from the available brands.

**GUI and Middleware Component Development for Hardware Interaction**

The goal of the project is to create user interface for the Point I/O modules, making it easier for end-users to configure them. This would include HI design, development and testing of I/O configuration interfaces for all modules in the product lines.

**IBM Ind Pvt Ltd** , **Bangalore September 2006 – September 2009**

**Designation : System Software Engineer**

**Role** **:** Design, Development and Performance Engineering **Environment :** C, C++, OOPS, Unix (AIX), GDB, DBX, Unix AIX system tracing tools, Clear Case **Team Size :** 15

**COMPANY PROFILE**

IBM is a product development and IT consulting corporation. IBM's ISL (India Software Lab) is a software division work in the area of software product development and research.IBM has a wide range of IT products including DB2 Database Management System.

**WORK PROFILE**

IBM’s DB2 is database engine provides data definition, manipulation service to OLTP, Embedded and DSS applications. I was working with the team which is responsible for sustenance and performance improvement of IBM’s DB2 product. Predominantly, worked in LOB Inlining line item of DB2 Database Engine. As a member of DB2 performance team I involved in running the TPC-C benchmark workload. Participated as an e Reviewer of SES (Software Externals Specification) and HLD (High Level Design) documents for some LI (Line Items) added in the server code. Working closely with remotely located development team and performance team in Canada. Used various IBM’s AIX tools for some performance issues.

**PROJECT DETAILS**

**LOB Inlining**

The project is all about the enhancement and performance improvement of DB2 database engine adding one Line Item, this line item is called **LOB (Large Object) Inlining**. LOB data of smaller size (less than one block size) has been managed in table’s row itself instead of allocating a new object.

**Sustenance and Performance Engineering of DB2 database engine**

As a team member of sustaining and performance team in ISL (Indian Software Lab) and remote performance team in Canada, The team was responsible for running various performance regression workloads. Performance is measured using DSS and OLTP Workloads. Analyze the performance degradation using performance monitoring tools either DB2 tools or system tools(CPU Profiling), Regular interaction with core developers after analyzing the cause of regression and some possible solutions. Interaction with customers for performance related issues. Bug fixing in various DB2 database engine modules which includes data storage in the database engine. Activity involved in improvement of performance (Optimizing Performance) of DB2 using AIX system tools and DB2 database engine tools.

**Sonata Software Ltd. Bangalore June 2005 – August 2006**

**Designation : Technical Consultant**

**Role** **:** Design and Development

**Environment :** C, Linux, GDB

**Team Size :** 3

**COMPANY PROFILE**

Sonata software Ltd is an IT service provider with headquarter in Bangalore. The company is CMM level 5 and having development centre in Bangalore and Hyderabad.

**WORK PROFILE**

Worked as a member of development team for Gupta's SQLBASE database server. Actively involved in implementation of a utility tool for upgrade the existing database which is on older version to new database version of SQLBASE database server. Bug fixing of database server code.

**PROJECT DETAILS**

The goal of the project was to make a console based tool for upgrading the database which is on older version to the newly released version of SQLBASE database server. named pipe communication and multi threading approaches was used with server APIs load and unload for transferring the data. The utility was developed on Windows and porting the same on Linux.

**Vaman Technologies R & D Ltd. Mumbai April 2003 – January 2005**

**Designation : Software Engineer**

**Role** **:** Design and Development

**Environment :** C, Windows IDE, Linux, GDB, VSS

**Team Size :** 8

**COMPANY PROFILE**

Vaman Technologies is a R&D company, specialized in developing database server called VAMAN DataServer. VAMAN DataServer is a complete Database Management solution. This database server integrated with web and mail server.

**WORK PROFILE**

Worked as a member of server side development team. Team was responsible for design, implementation and sustaining of Table object, Data dictionary, Data storage and Tuple preparation related modules of Vaman DataServer. Involved in optimization of server side modules. Participated in enhancement of tuple preparation and overflow tuple. Involved in sustaining Table object for various operation like create, alter and drop with various options. Implementation of temporary table.

**PROJECT DETAILS**

**Sustenance of Table Object module**

Table is a basic unit of relational database, which comprises of rows and columns. Project was on enhancing the functionality of table operation like creation and alteration with several options. Allocation of segment/extent to accommodate future data.

**Tuple and Data Storage Management**

Worked as a member of server team, the team was responsible for enhancement and bug fixing. Vaman DataServer keeps the data in form of tuples written in blocks. The activity involved are enhancing the tuple header comprises of fixed fields, variable offset & variable fields,tuple status like normal/overflow. Overflow tuples can't get accommodate in single block so it gets fragmented in across the blocks and keep track of block by maintaining chain Row ID in tuple header.