P R A B H U R A N G A R A J A N [http://www.code-bits.net](http://www.code-bits.net/)

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PROFILE SUMMARY

Technical Lead with 11+ years of extensive experience in software development and design in **C, C++, Perl, PHP on Unix/Linux platforms.**

* Programming Languages: C, C++, Perl, PHP, SQL/PL-SQL
* Platforms: Unix (Solaris, HP, AIX), Linux (SUSE, Ubuntu)
* Scripting: Unix shell scripting, Awk, JavaScript, VBA
* Configurations: CVS, Perforce, ClearCase, Visual SourceSafe, SCCS, Git
* Web development: HTML, CSS
* Networking tools: Netmon, Wireshark
* Debuggers: GDB, DBX
* Databases: Oracle 8i/9i/10g, PostgreSQL, MySQL, Sybase
* Dev/Design tools: Data Structures, Algorithms, Design Patterns

WORK EXPERIENCE

**HCL Technologies From Dec 2008**

**Location: CHENNAI(From 2014/05)**

**Client:XEROX CORPORATION, HERTFORDSHIRE, UK**

Maintenance of Print Engine for Xerox Brilliance WorkCenter From May ‘14

* Fix pre-launch bugs in the Print Engine module of the WorkCenter.
* Fix bugs in the Feed module to ensure correct paper handling from multiple trays for booklet jobs.
* Investigate and fix bugs in the User Interface primarily during print component replenishment.
* Environment: Linux(CentOS), Embedded C++, Git, Rational ClearQuest

**Location: SUNNYVALE, CALIFORNIA(2008/12 – 2013/09), HYDERABAD(2013/10 –2013/11)**

**Client:MICROSOFT CORPORATION, SUNNYVALE, CALIFORNIA**

MSN TV Service Support and Maintenance Dec ‘08 - Nov ‘13

MSN TV service provides internet-based services, web browsing, multi-user email accounts and TV content through a set-top box to its subscribers.

* Added new features to MSN TV Mail service to model Hotmail’s utilization of storage folders.
* Made bug fixes to the Mail UI screens in MSN TV Mail and managed presentation of content from different partners (weather, news feeds, stock market, etc).
* Investigated and fixed connectivity issues (modem failures, partner content issues, network failures).
* Environment: C, Unix (Solaris), Oracle 9i

Migration of MSN TV mail accounts to Hotmail Oct ‘10 - Nov ‘13

* Coded features and added options to the bulk-migration tool used by Microsoft to move mail content of over 125,000 MSN TV subscribers’ to Hotmail’s mail servers.
* Wrote automated scripts to administer and migrate huge amounts of subscribers’ mail content.
* Investigated and fixed migration issues involving mail content and format.
* Environment: C, Unix (Solaris SPARC and i386), Perforce.

Integration of Brightmail Spam Filter with Postfix on MSN TV mail service Nov ‘09 - Sep ‘10

* Built Postfix 2.6 modules and installed binaries.
* Modified and set up the postfix configuration files to work with the Brightmail spam filter libraries, leading to very exceptional level of spam blocking on customer email accounts.
* Environment: Solaris i386 server, Brightmail 6.0 SDK library, Postfix 2.6 source libraries

**Vensiti Inc(now Techgene Solutions) - Irving, Texas Apr 2007 - Dec 2008**

**Location: MOUNTAIN VIEW(2008/04 – 2008/12)**

**Client: MICROSOFT CORPORATION, MOUNTAIN VIEW, CALIFORNIA**

Enhancement/Maintenance of CSDesktop customer management system Apr ’08 – Dec ‘08

* Fixed bugs and added features to the new version of CSDesktop customer management system, which quickened resolution of customer issues and significantly reduced CS agents’ interaction time.
* Enhanced the security features in application code to comply with PCI requirements.
* Trained Microsoft’s Customer Support teams in Panama and Canada on support issues, new functionality training and application performance.
* Environment: Visual J#, Windows 2003 Server, Oracle 9i, Java, JavaScript, HTML, IIS

**Client: ELECTRONIC DATA SYSTEMS(now HEWLETT-PACKARD), FRANKFORT, KENTUCKY**

Kentucky Medicaid Management Implementation System (KYMMIS) Aug ’07 – Feb ‘08

* Coded new features in C for the Back-End reporting component of the KYMMIS system.
* Wrote queries using SQL to extract Claims data from the Oracle 10g database.
* Used Perl scripts and Unix shell scripts to run reports and schedule jobs.
* Debugged using GDB existing errors and inaccuracies in the claims adjudication module.
* Environment: C, C++, Unix (Solaris), Oracle 10g, Perl, Pro\*C, XML

**Client: PIZZA HUT, DALLAS, TEXAS**

Migration of Point-of-Sale application from SCO Unix to SUSE Linux May ’07 – Jul ‘07

* Migrated Pizza Hut’s point-of-sale application from SCO Unix to SUSE Linux.
* The primary task in the project was to detect and fix a number of memory leaks in the source code which caused the POS application to crash in the new Linux environment.
* Used GDB to debug segmentation faults and fixed memory leaks on the Linux platform.
* Environment: C, C++, Oracle, SUSE Linux and SCO Unix

**Clemson University, Clemson, South Carolina Sep 2004 – Dec 2006**

* Provided software and hardware tech support to staff and students as Student IT Consultant at Computing and IT Department(CCIT)
* Taught coding in Visual Basic to middle schoolers as Teaching Assistant at Summer Science Camp.

**Hewlett-Packard, Bangalore Aug 2003 – Jul 2004**

**Location: ATLANTA (2003/08 – 2003/10), COLORADO SPRINGS(2003/10), BANGALORE(2003/11 – 2004/07)**

**Client: HEWLETT-PACKARD - ATLANTA, COLORADO SPRINGS, US**

Instant Support Enterprise Edition (ISEE) Support and Maintenance

* Wrote Perl and Unix shell scripts to automate the monitoring of server activity logs in the data center.
* Provided technical support and resolution to users of HP”s Workflow Management System(WFM).
* Environment: Perl, Unix Shell Scripting

**ZenSar Technologies, Pune Feb 2003 – Jul 2003**

**Client: BAHRAIN TELECOM, BAHRAIN**

Enhancement and Maintenance of CommerceLink Payment Gateway

* Coded additional features in C++ to provide complete authentication and processing of transactions using VISA issued credit cards.
* Wrote C++ APIs that were used to communicate with the database for recording transactions.
* Developed Perl and Unix shell scripts for generation of transaction logs.
* Environment: C++, Perl, PostgreSQL, Unix (AIX)

**Patni Computer Systems(now iGATE Corporation) - Mumbai Feb 2000 – Feb 2003**

**Client: HITACHI SOFTWARE DIVISION, YOKOHAMA, JAPAN**

FileLink – An Automated Test Tool Jun ‘02 - Feb ’03

* Wrote code in C to develop the FileLink plugin for HiRDB, which is Hitachi’s in-house RDBMS.
* Created scripts to handle weekly backups of source code and documentation.
* Environment: C, HiRDB, Visual Studio

CC-Manager Tool for ClearCase Sep ‘01 - Jun ’02

* Wrote C code to develop the CC-Manager plugin for ClearCase that keeps track of code check-ins.
* Ported the code to run on 3 Unix platforms (Solaris, HP Unix and AIX).
* Developed a cross platform automated Test Tool in Perl that automatically executes test cycles.
* Environment: C, ClearCase, Perl, Unix

Regular Expression Library for Windows May ‘01 - Sep ’01

* Developed for Windows the POSIX Regex functions *regcomp*, *regexec*, *regerror* and *regfree* satisfying XPG4 specifications.
* Developed a COM interface that interacted with the VBScript.DLL file to provide pattern searching and matching functionality.
* Wrote an automated test tool to test the Regex Library and compare output from the Unix environment. Delivered the project one month ahead of schedule.
* Environment: Visual C, COM, Unix(AIX)

Development of SENIGEN Tool Dec ‘00 - May ’01

* Coded Hitachi’s SENIGEN screen transition tool in Visual C++.
* Utilized the MFC Class Library to generate a pictorial screen transition table within an Excel Worksheet.
* Wrote reusable Macro library in VBA that was used as a code documenting tool.
* Environment: Visual C++, MFC library.

Work Coordinator Library on Solaris Feb ‘00 - Oct ’00

* Ported Work Coordinator Library’s C source code and Makefile build systems from HP-UX 11.0 to SUN OS 5.8.
* Built the Installation Program for SUN OS 5.8 using Install Shield.
* Wrote procedures in PL/SQL for writing new business processes to database.
* Received Valuable Contribution Award for going beyond assigned responsibilities to ensure timely delivery of the project.
* Environment: C, Solaris, HP-UX, Oracle 8i

EDUCATION

* M.S in Computer Science, Clemson University, Clemson SC, 2006
* Diploma in Advanced Computing, CDAC Pune, India, 1999
* B.E in Mechanical Engineering, PSG College of Technology, India, 1998

ACADEMIC PROJECTS *(M.S in Computer Science, Clemson University, Aug ‘04 – Dec ‘06)*

* Wrote a disk-scheduler for the Linux kernel to service disk-requests with minimum seek-time using a branch-and-bound algorithm that maintains a sorted binary tree of disk requests.
* Implemented a device driver as a Linux kernel module for the Permedia 2V PCI graphics board manufactured by 3D Labs. The driver supports DMA and has a customized interrupt handler.
* Wrote a system call smunch() for the Linux Kernel which kills zombie and sleeping processes.
* Wrote a multiuser chat room application in C supporting using the LiveMedia555 open-source library.
* Wrote a Compiler in C for the language FORTH
* Developed using PHP and MySQL a web-based multi-user Data Backup system with Version control.
* Developed a prediction model with the WEKA Data Mining tool for gene classes from a huge dataset of 7070 genes with 70 samples for each gene.

PERSONAL PROJECTS *URL* – [http://www.code-bits.net](http://www.code-bits.net/)

* Currently working on a Tennis Simulator program (future web/ mobile application) that is based on 2540 match results from actual Grand Slam tournaments from 1990-2010. My algorithm uses historical data for over 1500 players to assign them a rank and allows the user to conduct his fantasy Grand Slam tournament (127 matches over 7 Rounds involving 128 players). The results are based on the players' historic records.
* Developed in C two complete simulation games for the Test and Limited Overs’ formats of the game of Cricket based on the Monte Carlo algorithm.

REFERENCES *(Contact details available on request)*

* Andrew Levin – Senior Development Lead, MSN TV, Microsoft, Sunnyvale, California.
* Sam Rafter – Operations Engineering Lead, Microsoft, Sunnyvale, California.