



Oracle Programming Using PL/SQL Course Overview

This course introduces students to PL/SQL, Oracle's procedural extension language for SQL and the Oracle relational database. Participants explore the differences between SQL and PL/SQL. They also examine the characteristics of PL/SQL and how it is used to extend and automate SQL to administer the Oracle database. This course culminates with a project that challenges students to program, implement, and demonstrate a database solution for a business or organization.

Pre-Requisites

- Previous experience with at least one programming Language.

Course Outline

The contents of this course are designed to support the course objectives. The following focus areas are included in this course:

- Module 1: Fundamentals
- Module 2: Defining Variables and Datatypes
- Module 3: Using SQL in PL/SQL
- Module 4: Program Structures to Control Execution Flow
- Module 5: Using Cursors and Parameters
- Module 6: Using Composite Datatypes
- Module 7: Exception Handling
- Module 8: Using and Managing Procedures
- Module 9: Using and Managing Functions & Packages
- Module 10: Getting the Best out of Packages
- Module 11: Improving PL/SQL Performance
- Module 12: Using and Managing Triggers
- Module 13: Recognizing and Managing Dependencies
- Module 14: Using the PL/SQL Compiler

We request you to nominate 1 or 2 faculty members from your institution.

Programme Details:

- > **Duration:**
5 Days
- > **Program Date**
24th to 28th February 2020
- > **Timings:**
09:00 AM - 04:30 PM
- > **Venue:**
Velagapudi Ramakrishna
Siddhartha Engineering
College
- > **To know more, contact:**
Dr D Rajeswara Rao,
+91 7358666163
hodcse@vrsiddhartha.ac.in
- > **Training Fee**
Free

REGISTER NOW

- ❖ **Resource person will be deputed from Oracle.**
- ❖ **Attendance is mandatory for the entire duration of FDP.**
- ❖ **Working lunch will be provided to the registered participants.**

Register@ <http://www.ictacademy.in/pages/login.aspx?ReturnUrl=%2fPages%2fUserlogin%2fFDPRegistration.aspx%3fsno%3d1763>



Velagapudi Ramakrishna Siddhartha Engineering College

Autonomous, Affiliated to JNTU Kakinada
Kanuru, Vijayawada 520007

Department of Computer Science and Engineering

REPORT ON ONE WEEK Faculty Development Program

on

Oracle Programming using PL/SQL


24th - 28th FEBRUARY, 2020

collaboration with and ICT Academy and ORACLE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
One Week Faculty Development Program
on
ORACLE PROGRAMMING USING PL/SQL
From 24th to 28th February, 2020
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS) SPONSORED BY SIDDHARTHA ACADEMY OF GENERAL & TECHNICAL EDUCATION, VIJAYAWADA-520007, A.P.

The Department of Computer Science and Engineering, V R Siddhartha Engineering College has successfully organized a One week FDP on “**Oracle Programming using PL/SQL**” during 24th - 28th February 2020 in collaboration with ICT Academy and ORACLE. The aim of this FDP is to promote research and academic aspects in Oracle data base like PL/SQL and SQL etc.


Mr. Bhimal kr jain Trainer deputed from Oracle acted as the resource person for this program. He has many technical certifications and organized numerous training programs in the domain of Databases.


 DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

*One Week
Faculty Development Program
on*

Oracle Programming using PL/SQL

*From 24th to 28th
February, 2020*



 **VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE**
(AUTONOMOUS) SPONSORED BY
SIDDHARTHA ACADEMY OF GENERAL & TECHNICAL EDUCATION, VIJAYAWADA, A.P

The following objectives:

- *Compare and contrast between PL/SQL, SQL, other programming languages and Oracle products.*
- *Demonstrate and configure the SQL Lite for implementing PL/SQL programs like PL/SQL blocks, variables in PL/SQL, scalar and composite data types and implicit and explicit conversion of data types.*
- *List and Define the different types of lexical units, valid and invalid identifiers, reserve words, delimiters and literals.*
- *Create PL/SQL code that follows formatting guidelines to produce readable code i.e insert, Update, Delete, Merge data into database table.*
- *Construct and execute an INTO clause to hold the values returned by a single-row SQL SELECT statement, PL/SQL statements that manipulate data with DML statements and case statements in PL/SQL*
- *Create PL/SQL containing a basic loop and an EXIT statement with conditional termination*



The training program for this Faculty Development Program has been divided into the following modules:

Module 1: Fundamentals

Module 2: Defining Variables and Datatypes

Module 3: Using SQL in PL/SQL

Module 4: Program Structures to Control Execution Flow

Module 5: Using Cursors and Parameters

Module 6: Using Composite Datatypes

Module 7: Exception Handling

Module 8: Using and Managing Procedures

Module 9: Using and Managing Functions & Packages

Module 10: Getting the Best out of Packages

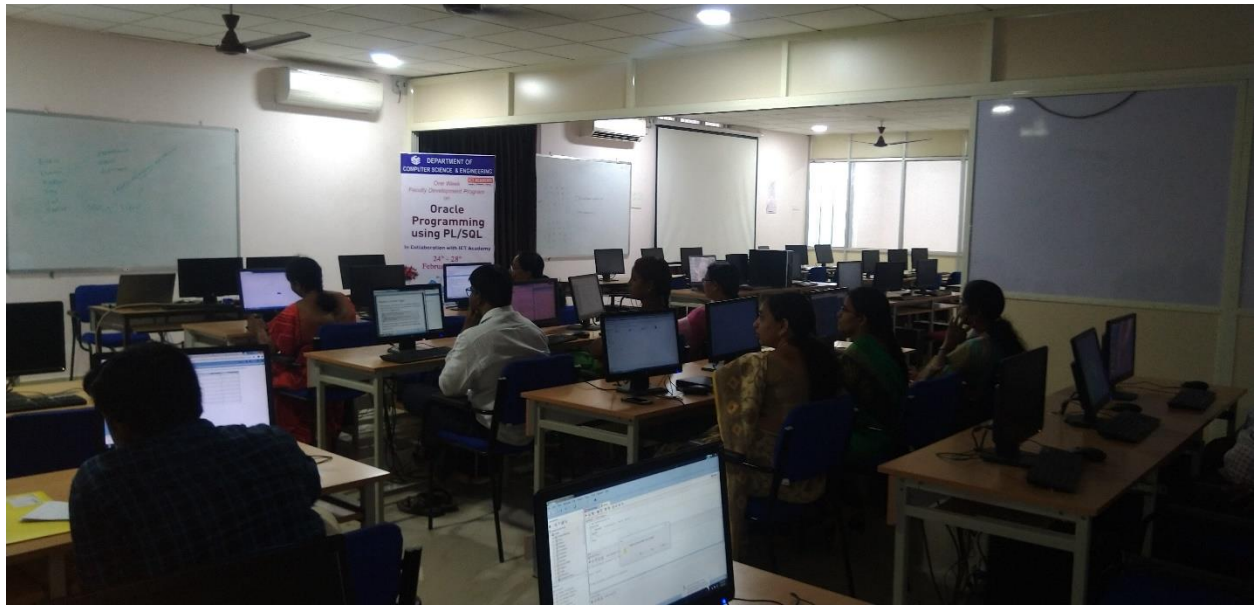
Module 11: Improving PL/SQL Performance

Module 12: Using and Managing Triggers

Module 13: Recognizing and Managing Dependencies

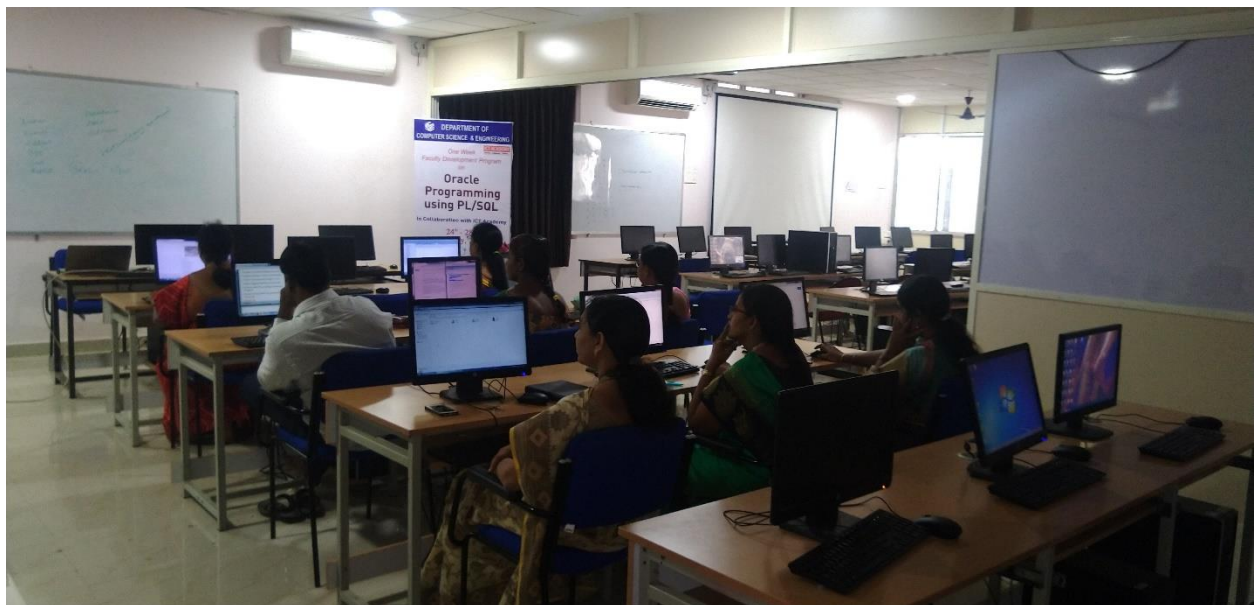
Module 14: Using the PL/SQL Compiler

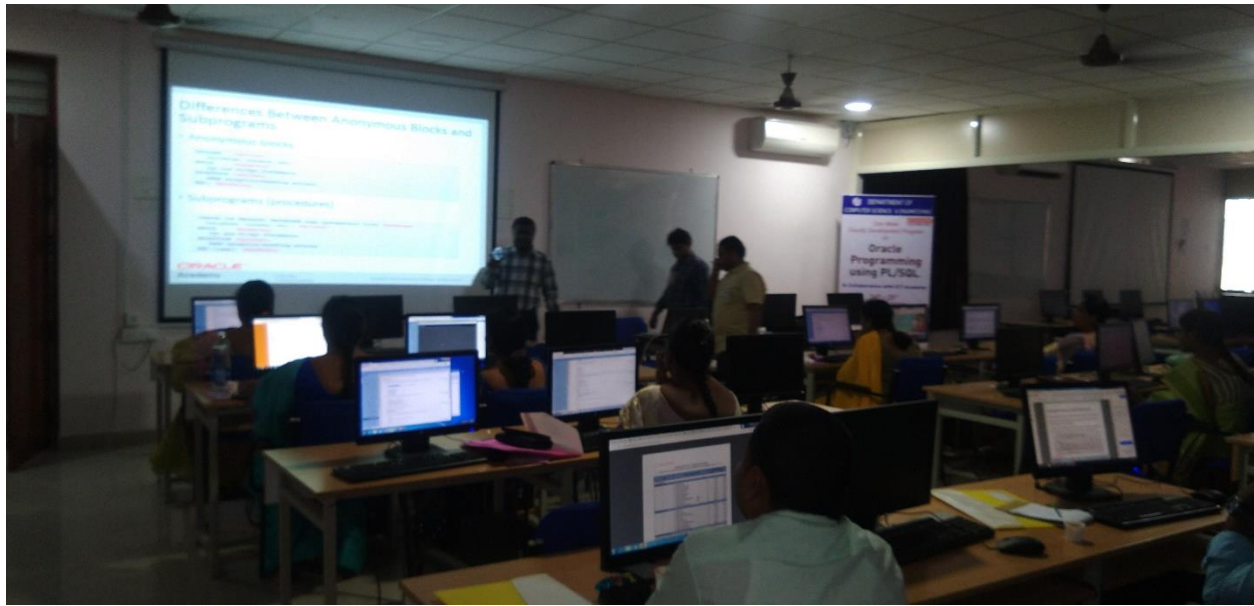




A total of 29 faculty members from both the host college and other external colleges of Andhra Pradesh have attended this program. The training schedule covered a total of 8 hours of training per day starting at 10 AM till 6 PM every day on the training days.

The faculty have been trained on concepts related to how to install, configure, and implement PL/SQL programs. They will learn to use the iLearning resources for semester and end exams conducted by Oracle.

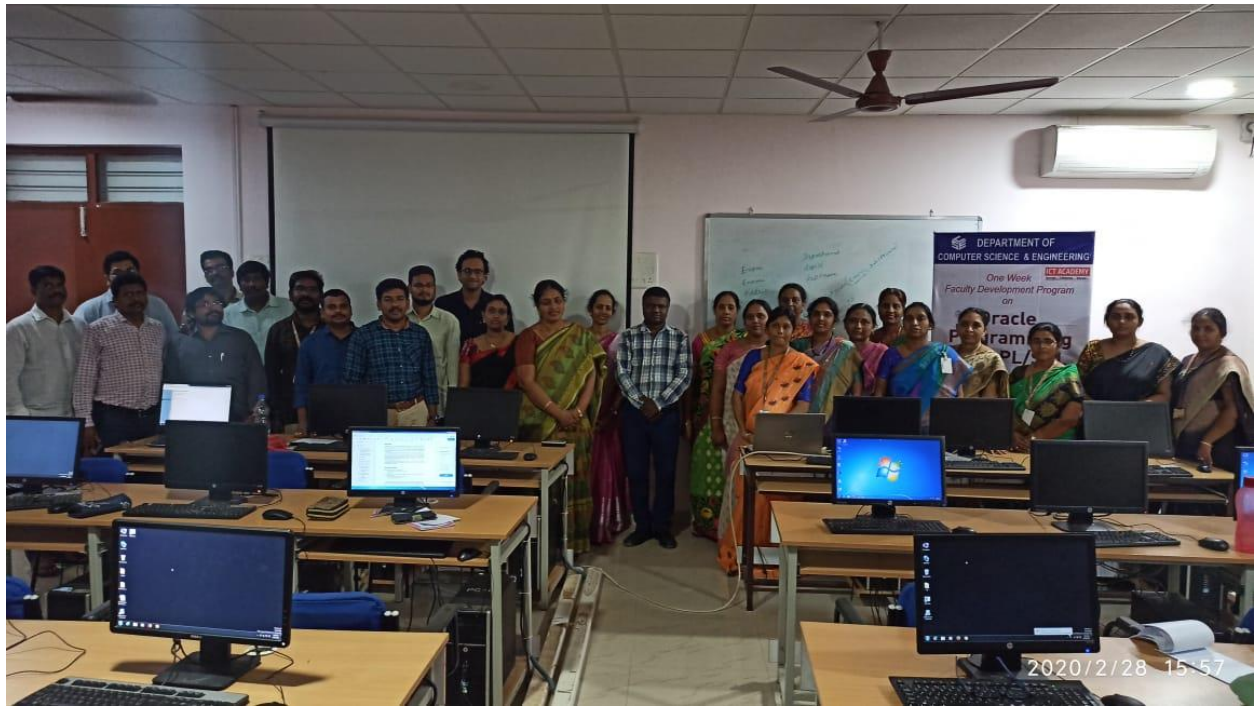




On the final day of the program, valedictory session was conducted where the faculty gave their feedback about the program and then followed by award of certificates to the faculty members.







Bimal Kr. Jain



Permanent Address for correspondence

H. No 45, Road no. 3, Vivek Nagar, Chhota Govindpur, Jamshedpur, JHARKHAND, INDIA Pin 831015.
Phone (O) (091)-657-2422352, (M) 09334615827, 9234613301 (R) (091)-0657-2276795
E-mail : bimalkj@gmail.com

Professional Certification

1. RHCE
2. SCA SuSE certified Administrator
3. SCE SuSE certified Engineer
4. SCI SuSE certified Instructor
5. Lineo Embedix
6. Microsoft certified (C# Programming)
7. OCP Oracle database 11g administration
8. OCP Java SE6 Programmer



Work Experience 23 Yrs

1. Real life configurations and deployments

- Little Flower School, Narbheram hansraj school Jamshedpur (Linux, thin client on linux)
- Loyola School Jamshedpur (Novell 3.12, Windows NT, Linux, Samba 4 AD)
- Sacred Heart Convent School Jamshedpur (PXE diskless boot with Linux server)
- Narbheram Motors Jamshedpur (Intranet and Dialup networking using NT and Linux)
- IIIM, IICT, CMC, Adityapur Polytechnic, AL-Kabir polytechnic (Novell 3.12 with Linux)
- XLRI Jamshedpur (Mail/DNS/Web/DHCP/FTP/Firewall Linux)
- Patna women's College (Linux, Oracle10g database, Developersuite and AS on linux platform)
- NAZARETH HOSPITAL, Tripolia Hospital Patna (RedHat Linux)
- Tata Limited Jamshedpur (RedHat Linux with Internet and firewall, MS SQL replication)
- SparX Technologies Pvt Ltd Jamshedpur (SuSE Linux, IPSec VPN)
- Safal Solution Pvt Ltd , Secunderabad (MySQL Cluster, Asterisk VoIP exchange)
- CMPDI Ranchi (SuSE Linux cluster with Firewall, Proxy, Mailing on SCALIX/LDAP and Oracle DB 10g, Database and application migration from MS SQL server/ASP to Oracle DB/PHP)
- SMPL Jamshedpur (RedHat Linux with ZIMBRA, LDAP, Proxy, Samba 4 AD, Fetchmail)
- SAIL RDCIS Ranchi (HP Blades with HP SAN, Oracle RAC on Linux)
- Anteras Bengaluru (Postgres EDB with HA on Linux, Multipath)
- Kyocera CTC Jamshedpur (Zimbra mail server/Gateway/Firewall on linux, Oracle Database 11gR2 on Linux, Oracle Weblogic server with forms and report service on linux)
- BRLP Patna (Zimbra mail server on linux with archiving)
- Maha Bodhi Hotel Bodhgaya (Hotspot server with authentication server on Linux)
- TATA METALIKS Kharagpur (Zimbra mail server on Linux)
- TATA STEEL Jamshedpur (Automatic Barriers programmed with PLC and Infrared sensors)
- TRF Jamshedpur (Intranet server using Joomla CMS with Linux)
- IISCO Steel plant Burnpur (Oracle Database 11g database and Oracle 11g Weblogic server with Forms and reports services on linux)

2. Technology Consultant

- SAFAL Solutions Pvt Ltd. (Embedded system, Smartcard, Linux)
- SPARX Technologies Pvt Ltd (Linux, Networking, Development)
- Eastern Compunet Jamshedpur (Linux, Electronics, Embedded systems)
- PRADAN Delhi (Linux, PHP, MySQL)
- Intrahealth Lucknow (Android, Linux)
- Anteras Bengaluru (Postgres, Tomcat)
- Sigma computers Ranchi (Linux)
- WATR Bengaluru (Android, PHP)

<p>Work Experience 23 Yrs</p>	<p>3. Research and development in Integration of technologies (Software, Electronics)</p> <ul style="list-style-type: none"> <p>• Wire fault detection system System to detect cracks in wire production and log the fault data with timestamp <i>Software used</i> : Python, C, Sqlite , LABVIEW <i>Hardware used</i> : Raspberry Pi, ATMEGA168, LCD, ADC, Buzzer</p> <p>• Coach Guidance System (Currently running at Rly Stn of TATANAGAR) LEDs matrix based Coach guidance system for Rlys for displaying Coach nos. All the matrix are connected in RS-488 bus for long distance communication. <i>Hardware used</i> : Microcontroller (AT89c52), Shift register, RS-488 decoder <i>Software used</i> : Assembly Language, embedded C, MySQL</p> <p>• Online digital audio mixer with PFL (ALL India Radio, Jamshedpur) Digital audio mixer which has software interface to control. <i>Hardware used</i> : Microcontroller (AT89c52), Relays , DAC, RS-232/RS-488 decoder <i>Software used</i> : Assembly Language</p> <p>• GPS navigation with RTC (Railway) GPS navigator with real time clock. (18ns accuracy) <i>Hardware used</i> : AVR atmega162, Garmin OEM GPS module, RS-232/RS-488 decoder <i>Software used</i> : Assembly Language, embedded C, MySQL</p> <p>• Water pump controller with real time level monitoring and logging Water level sensing with automatic stop and start of motor. Real time display of water level with 0.5 cm accuracy. Data logging for water usage and filling. Web based dashboard for controlling the motor and displaying current water level. <i>Hardware used</i> : Raspberry Pi 2, Ultrasonic sensor, Solid state relay <i>Software used</i> : Python , C, PHP</p> <p>• Bell ringer with RTC (School) PC and GPS synchronized real time clock. 7 day different schedules up to 20 times/day can be stored (140 schedules). School can configure different timing for bell for weekdays and can run standalone. <i>Hardware used</i> : Microcontroller (AVR atmega162), Garmin OEM GPS module, USB-serial module, LCD, Solid state relay <i>Software used</i> : Assembly Language, embedded C, Delphi (PC interface)</p> <p>• Industrial OCR for production plant Automatic detection of engraved writing on produced items. OCR data logged to database with timing and compared against existing listing to find duplicates. <i>Hardware used</i> : Industrial camera, Light strip <i>Software used</i> : Tesseract API, C, PHP (Web interface)</p> <p>• Scheduled imaging/processing to database User can define the schedules for every day for automatic image capture. Images are stored in Oracle database BLOB fields. With image processing system finds out volume of material. <i>Hardware used</i> : Industrial camera <i>Software used</i> : Visual C++ with camera API, Oracle Database API</p> <p>• Smart Annunciator panel 48 channel for fault input with centralized monitoring and logging. Apart from LED panel big LCD screen is also programmed for better viewing. <i>Hardware used</i> : AT MEAGA168, Raspberry Pi with HDMI <i>Software used</i> : Embedded C, Python , PHP</p> <p>• Smart power controller 16 channel power module with Bluetooth connectivity. Any electrical gadgets like AC, lights, fans etc. can be connected to these channels and can be controlled by mobile app or website. <i>Hardware used</i> : Raspberry Pi 3, Solid state relay, RTC <i>Software used</i> : Python, Delphi (PC interfacing)</p> <p>• Engine RPM counter and logger Real time Alternator RPM counter with logging of data to sdcard (time and RPM) <i>Hardware used</i> : Teensy 3.1, SD Card writer, RTC <i>Software used</i> : Embedded C, Delphi (PC interfacing)</p> <p>• 16 digital + 2 Analog channel Wireless controller 16 digital data and 2 analog data can be transmitted to remote module without any wire (2Km range). <i>Hardware used</i> : ATMEGA48, XBee PRo <i>Software used</i> : Embedded C</p>
<p>Education</p>	<p>MCA</p>

Experience in Corporate Training

1. Linux RHCE/RHCS, Administration, Clustering, Performance tuning, Virtualization, Docker, Kubernetes, OpenStack, OpenShift - Atos - Mumbai, ONGC - Mumbai, Indian AirForce - Delhi, Cognizant (Kolkata), Nokia Siemens Network NSN (Delhi, Bangkok), HCL -Noida, Microsoft - (Hyderabad, Bengaluru), continuum mumbai
2. Unix Shell scripting - Allianz Cornhill (Trivandrum), IBM - Chennai, Delhi, Cap Gemini Kolkata
3. LAMP, AJAX, Open Source CMS (Joomla, PHP-Nuke)- Symbiosis - PUNE, SAFAL Solutions - (Secunderabad), Wipro - Delhi, IICM Ranchi, TechMahindra Bengaluru, Parthivi Engineering College - Bhilai
4. C API for MySQL - SAFAL Solutions Pvt Ltd. - Secunderabad
5. Smalltalk using VisualWorks - IBM, Accenture, Honeywell - Bengaluru, CGI
6. JAVA - Satyam Chennai, IICM Ranchi, CMPDI Ranchi, EMC - Bengaluru
7. Advance JAVA - SAIL MTI Ranchi, SAIL Bhilai Steel Plant
8. .NET training - SAIL MTI Ranchi, CMPDI Ranchi, SATYAM Chennai, IICM Ranchi
9. VoIP platform with Asterisk (Open source Telephony) - Safal Solutions Hyderabad
10. TCL/TK Training - SAFAL Solutions Pvt Ltd - Secunderabad, CGI
11. Linux Device Driver, Advanced .NET, Core JAVA & J2EE - Satyam Chennai, Hyderabad
12. Ruby, Ruby on Rails - Wipro Chennai, xchanging banglore
13. Mariadb/Galera/Percona/MySQL with Cluster - SAFAL Solutions Pvt Ltd - Secunderabad, Netmagic Solutions Pvt. Ltd.- Mumbai, RPS - Hyderabad, ORACLE - Bengaluru, Cognizant - (Pune, Chennai, Bengaluru) , Qualcomm - Bengaluru
14. MySQL Stored Procedure and triggers - SARAL Services (Secunderabad)
15. Oracle to MySQL Migration (Data and code) - ciena - Delhi
16. MSSQL to MySQL Migration - Honeywell banglore, CMPDI Ranchi
17. Oracle DBA 10g/11g - IICM Ranchi, SAIL MTI Ranchi,SAIL Bhilai
18. DB2 developer - IBM Kolkata
19. Delphi - Wipro Kolkata, Infosys Hyderabad, CSC Hyderabad, IBM Chennai
20. Python - Nomura Mumbai, Cognizant Kolkata, Safal Solutions Hyderabad, HP Bengaluru, GenPact Kolkata
21. Solaris administration - Accenture Kolkata
22. LAMP training with YII MVC framework, Android - Ministry of agriculture Ethiopia
23. PERL - Accenture Kolkata
24. Advance LAMP - Tech Mahindra Bengaluru
25. BigData NoSQL (Hbase, Cassandra) - EMC Bengaluru, BMC Software Pune
26. SuSE Linux clustering - HP Bengaluru, NTTDATA
27. ArcGIS server on linux - CyberTech Mumbai
28. Cache Database and Delphi - Cognizant Chennai
29. Linux and NAGIOS - ActTV Bengaluru
30. RedHat Enterprise Linux performance tuning - HCL Noida
31. Postgres DBA and developer training - Anteras, Infosys, Siemens - Bengaluru, TCS - Chennai
32. Advance Linux implementation (Zimbra, Hadoop) - Eclerx Mumbai
33. iOS App development and deployment - Tata Steel Jamshedpur
34. Android - IICM Ranchi, Safal solutions - Hyderabad, CMPDI Ranchi
35. IOT - CMPDI Ranchi

	<p>36. Oracle University Training</p> <ul style="list-style-type: none"> a) Oracle DataBase 12c/18c b) Oracle Database Performance tuning c) Oracle Autonomous Database d) Oracle Exadata e) Oracle Exalogic f) Oracle GoldenGate g) JAVA Programming h) Oracle VM Administration and Implementation i) Oracle MySQL Administration, Performance Tuning, j) PHP/MySQL k) SQL/PLSQL l) Solaris m) ZFS n) Oracle Cloud Data integration o) Oracle Commerce/ATG p) Oracle Solaris q) Oracle Super Cluster r) Oracle Private Cloud Appliance s) Oracle Linux
Key Strength	<ul style="list-style-type: none"> • Ability to manage teams effectively • An analytical approach to problems • Ability to grasp concepts easily • Ability to work with New and upcoming Technology

Real Life Projects	<ul style="list-style-type: none"> • Subscriber management system for cable service providers Software to automate operations of CSP. Automated billing, Integration with Conditional Access System (CAS of irdeto, NDS), POS handheld <i>Software used</i> : PHP, Python, MySQL, C <i>Platform</i> : Server on Linux, Nodes (Browser based) <i>Implementation site</i> : SAFAL Solutions Pvt Ltd - Hyderabad. • Mobile based new born care Mobile based application for new born and mother care. Pregnant registration, Birth/Death reporting, Home visit scheduling, Voice/Image based questionnaire, Classification of new born, Remedy, Centralized tracking <i>Software used</i> : Android SDK, PHP, SQLITE, JAVA <i>Platform</i> : Android based smartphone <i>Implementation site</i> : JHANSI • Touch screen based PNR and accommodation availability Railway Kiosk application for passengers travelling in railway <i>Software used</i> : JQuery, php, javascript, Python <i>Platform</i> : Linux <i>Implementation site</i> : Railway station of TATANAGAR, RANCHI, ROURKELA, JHARSUGDA • EPG Grabber Collection of Electronic Program Guide(EPG) for all available channels and conversion into various format for integration with CAS. <i>Software used</i> : JAVA, XSLT, Python <i>Platform</i> : Linux/Windows, DreamBox <i>Implementation site</i> : SAFAL Solutions PVT. LTD. - Hyderabad • Real-time asset monitoring system Software to automate the monitoring and controlling the assets remotely. It also gives you geo-position of your device in Google-map <i>Software used</i> : PHP MySQL, Python, Google-map API <i>Platform</i> : Linux/Windows, Garmin GPS Receiver <i>Implementation site</i> : Many sites of Tata steel mines and Airtel • GMI Measurement System LABVIEW based system for plotting graph for data integration of Gauss meter, Impedance analyzer and power supply <i>Software used</i> : NI LABVIEW <i>Platform</i> : Windows <i>Implementation site</i> : NML Jamshedpur • Industrial Dashboard for production monitoring Dashboard taking live feed from fields and updating based on logic. <i>Software used</i> : Python, MySQL
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	<p><i>Platform</i> : Raspberry PI <i>Implementation site</i> : Tata Tubes Division</p> <ul style="list-style-type: none"> • Internet access control For controlling internet access to predefined users using prepaid coupons. <i>Software used</i> : Python, Mysql, PHP, iptables <i>Platform</i> : Linux • Call Centre for Agro Advisory Information System Call centre for the agriculture information via mobile phones and Voice channels of Normal phones. Facility for Conference, Call logging, Authentication, Voice menu <i>Software used</i> : Python, C, Asterisk Open source PBX, MySQL <i>Platform</i> : Linux, Symbian 9.1 <i>Implementation site</i> : Safal Solutions (Secunderabad) • SMS Gateway (Currently running at KGP, Ranchi RlyStation) Automation of GSM and CDMA messaging through computer. PC interfacing of any GSM phone for automatic SMS sending and receiving. <i>Hardware used</i> : GSM Nokia mobile phone, USB Serial data interface for Nokia phone <i>Software used</i> : Assembly Language, Delphi, MySQL • Network equipment monitoring Dashboard to show usage and failure of critical network equipment by taking SNMP traps into reading. <i>Software used</i> : TCL/TK, Python (Raspberry pi) <i>Platform</i> : Linux • Power controller based on global schedule System to control and monitor power hungry equipment based centralized schedule which can be given per day basis given by user. <i>Software used</i> : PHP, Python
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Technical Proficiency	OS Platforms	FreeBSD, SCO Unix, Linux, AIX, Solaris, QNX , OS/2 , Mac OS X
	Programming Languages	C/C++, Java, Perl, Assembly, TCL/TK, smalltalk, Python, PHP, Ruby
	SCM, Version control	svn, cvs, git
	Linux skills	<p>Distributions Slackware, Mandrake, Caldera, RedHat EL, Oracle unbreakable linux, CentOS, Engard, miniLinux, Fedora core, SuSE, Debian, UBUNTU</p> <p>Projects Linux router, LTSP, Oracle 8/9i/10g/11g on Linux, Firewalls, FAX, Intranet (Apache, PHP, MySql, Bind, DHCPd, Sendmail, IMAP etc), Bandwidth management, Cluster, RAID, Smart Card readers, Netware Emulation, Samba with AD, Backup Server, Thin client, ,SuSE Linux Open exchange Server, IDS, Application development for Linux Handhelds, ASTERISK (VoIP + POTS) Implementation, OCFS2, GFS, GPFS, Redhat Directory Service (RHDS), Zimbra, Scalix</p> <p>Programming Device drivers, Kernel Threads, IPC, Serial Port, Socket, Network, Interactive Voice Response System (IVRS), CORBA, X-windows, QT for GUI of embedded linux box</p> <p>Scripting bash, korn, sh, csh, perl, sed, awk, python</p>
	Database	MySQL, PosgreSQL, ORACLE Database , Oracle Exadata
	Big Data/NOSQL/Misc.	Hadoop, Apache Cassandra, MongoDB, HBase, Spark
	Cloud infrastructure/Service	OpenStack, OpenShift, Oracle Exalogic
	Content Management System, e-commerce	Joomla, Wordpress, Drupal, magento, osCommerce, xCart, openCMS
	Programming for Web	Java script, PHP, JSP, ASP.Net, Perl, CGI , WAP, AJAX, RUBY on Rails, JQuery, JQuery-UI, JQ-Grid, Angular JS, NodeJS, groovy, Coldfusion, Elasticsearch, Logstash, Google API (MAP, Translation), Symfony, Laravel, YII, Selenium, Zend framework, Scala, ArcGIS, Django
	Application server	JBOSS, TOMCAT, Geronimo, Oracle 10/11gAS , Weblogic
	Markup Language	HTML, DHTML, WML, XML(XSLT, XPATH, XQUERY, DTD, VoiceXML)

	Development Environment	Eclipse, Solaris Studio, JDeveloper, NetBeans, Oracle Developer suite (Forms and Report), AVR Studio, Android studio, Xcode, Visual studio, Xamarian studio (mono), Delphi, Embarcadero RAD Studio, Powerbuilder
	UNIX System Programming	C, C++, xWindows/MOTIF, Device drivers, Serial Port, Socket programming, Network Programming
	Data Base Programming	Legacy (DBase, FoxBase, FoxPro, Clipper), SQL, Pl/SQL, TSQL
	Industrial Automation/AI/ML	LabView, Matlab, SCADA, Scikit-learn, Tensorflow, Pandas, Matplotlib
	Mobile programming	Android, iOS, Symbian
	Embedded System/Internet of Things(IOT)	Programming of HandHelds, PDAs (Simputer, PALM III, Pocket PC), Programming of SMART Card (Memory card and Processor card), Microcontroller based development (8051/AVR and PIC from Philips/ATMEL/Texas Instruments/MICRO CHIP), RTOS, PLC Programming, Wind River Linux, Raspberry PI, FreeSOC, CubieBoard, Arduino, Teensy, BananaPi ,BeagleBone, Cypress PSoC 5LP Development Kit, ESP8266 board, RDK-B/V with Raspberry PI
	Electronics	Microcontroller (8051, AVR, PIC, STM), ARM Cortex, Circuit designing, PCB designing with PROTEL and Eagle, LCD Interfacing, RS232 and RS488 interfacing, PLC Programming, I2c/SPI interfacing, Custom design with Verilog VHDL, RFID, GPS receiver, RTC, Xbee Pro, Ultrasonic sensor, Time of Flight sensor
Hobbies	Music, Photography, Cognitive Science, Study of New subjects	
Personal Data	<i>Birth Date : June 20, 1978</i>	<i>Marital Status : Married</i>
	<i>Gender : Male Updated on : Jan 19</i>	<i>Nationality : Indian</i>