

ANIL ANAND  
3 Horton Lane, Billerica, MA 01821  
(978) 667-0716 E-Mail: [anil.anand@comcast.net](mailto:anil.anand@comcast.net)



**Career Interests: Statistical programming using SAS, Oracle 9i Database, UNIX System Administration. Excellent Analytical, Presentation and Communication Skills.**

#### **TECHNICAL EXPERTISE**

**Programming Languages:** Statistical Programming using SAS, SAS Macro, Proc SQL, SAS ODS, Excel, C, C++, Perl, XML, Bourne Shell, Visual Basic 6.0, PL/SQL (Oracle 9i), Crystal Reports

**Operating Systems:** Linux and Sun Solaris, IBM Mainframe,Z/OS and JCL, UNIX, MS Windows XP/2000/NT/98

**Databases:** DB2, Oracle 9i , MS Access

**Taught courses in Database Design and Development using Oracle PL/SQL, Microsoft Office Suite with Excel and Word.**

#### **WORK EXPERIENCE**

**CIGNA HealthCare, Bloomfield, CT**

June 2006 to December 2006

**SAS Contract Programmer/Analyst**

Worked as part of the Clinical Insights and Disease Management group at CIGNA to manage **Oncology**. The CIGNA Health Care databases used were **HCE** (Health Care Economics), **Pharmacy**, **Carve Out Pharmacy**, **GILA**(Utilization Management), **NDC** (National Drug Code), **JCodes** and **HRA** (Health Risk Assessment). Extracted data from DB2 tables to SAS datasets. Merged and manipulated data after importing to SAS. Used IBM Mainframe to extract data and exported some datasets to PC SAS. Used Procedure Code and Diagnostic Codes to stratify different types of Cancers. Worked on the **Oncology** program from design, development and testing. These programs are now in production. Used Proc Summary, Proc Transpose, Proc SQL and merging extensively. These programs are for HMO and PPO

Worked with applications to generate presale reports in Oncology. Worked on screenings for different types of cancers like Breast, Colorectal, Cervical, Prostate and Mammograms along with quality metrics.

Modified the Depression program running on PC SAS 9. The program reads CBH(CIGNA Behavioral Health) database.

**Boeing Commercial Airplane Group, Oak Ridge, TN** September 2005 to June 2006

**SAS Contract Programmer/Analyst**

Extracted and imported data from Baan, SQL, DBF and Excel formats to SAS datasets. Performed data manipulation by merging several datasets and extracting information. Used SAS datasets to create reports using Crystal Reports 10 and Proc Reports. Used Proc Transpose, Proc Tabulate, Proc Import, Proc Freq and Proc SQL. Used arrays along with Proc Means, Proc Summary and Proc Freq. Created reports for the finance department at Boeing using data from several sources. These reports have drill down capabilities in html. Used SAS Macros to produce drill down capability for these reports and Output Delivery System(ODS) to display the reports. Performed detail analytics while producing financial reports so that the financial data is checked and are accurate. Used SAS version 9.1.3

**Project 1: EDI Invoicing Application Development**

Developed an application for the purchasing department using SAS. Boeing buys hundreds of manufactured parts from Honeywell who in turn buys them from many vendors. This application stores the part information into a SQL Server database after being scanned on the shop floor. An electronic invoice is received in EDI(Electronic Data Interchange) format from Honeywell. The application parses the invoicing information data from the EDI feed and matches it with the parts received on the shop floor. It creates an HTML report using Proc Report to accept or reject the invoice, checks for duplicate invoice, defective parts and invoices already paid.

**Project 2: Finance department budget and actuals reports**

Developed six reports using Proc Reports with SAS datasets. The data is extracted from three sources, namely Oracle data from BAAN remotely from Seattle. Data in DBF format and budgeted data in Excel format. Imported this data to a SAS datasets. Cleaned, manipulated and merged these datasets to produce reports. These reports have drilled down capabilities up to three levels in html. Use ODS and SAS Macros to create reports in html format. Updated reports each month and quarter with new data.

**Project 3: Shop floor parts tracking**

Developed a program to track parts on the shop floor and see what parts are being made behind schedule. Used Proc Tabulate, ODS to create a report. The report is dynamic and information can be obtained from which is current to the shop floor information.

**US Army, Natick, MA** January 2005 to June 2005

**SAS Contract Programmer/Analyst**

Worked for US Army Research Institute of Environmental Medicine(USARIEM) as a **SAS Programmer/Analyst**. Worked with Total Army Injury and Health Outcomes Database(TAIHOD) database. TAIHOD is a versatile system that joins multiple personnel and health data sets from six separate DOD agencies for epidemiological research among active duty Army personnel. The database supports epidemiological health research in injury control, occupational hazard and disease prevention. Analyzed data with SAS version 8.2. Manipulated multiple datasets, aggregating data and merging datasets for analysis. Used Proc Means, Proc Summary, Freq and SAS Macros extensively. Used the Import and Export procedures to transfer data into different formats, several SAS functions, Arrays for manipulating data for producing descriptive statistics. Exported SAS data to Excel to produce reports and graphs.

**Persons Graduate Center of Marlboro College, Brattleboro VT** April 2003 to Present

**Adjunct Instructor**

Taught graduate course in Unified Modelling Language (UML).

Taught Database Design and Development using Oracle 9i and PostgreSQL

**Gibbs College, Boston MA** July 2003 to present

**Adjunct Instructor**

Teach the following classes to day and evening students:

- Operating Systems
- Database Development in Oracle 9i
- Programming Fundamentals in Visual Basic 6.0
- Internet Research
- Introduction to Computers
- Project Design
- Software Applications I
- Advanced Networking I

**Quincy College, Quincy MA** September 2003 to December 2004

**Adjunct Instructor**

Teach the following classes to evening students:

- Data Structures and Algorithms in C++
- Unix with Linux

**Northeastern University, Dedham Campus** September 2003 to December 2004

**Adjunct Instructor**

Teach the following classes to evening students:

- Visual Basic 6.0

**Anand Technologies Corporation, Malden, MA:** July 1997 to July 2002

**Owner/Manager**

Managed software professionals for staff augmentation at Information Technology departments in State Street Bank and Trust Co., MA, Hartford Insurance, CT, Sonexis, Inc., Boston, Fidelity Investments, Boston, BBN, Boston. Oversaw employee performance. Installed and administered Red Hat Linux, Sun Solaris and Windows systems. Performed daily operational systems administration for production and development of UNIX and Windows systems. Installed new systems and upgraded software packages. Wrote Oracle PL/SQL (Oracle 9i) Stored Procedures and Functions. Oracle relational database modelling concepts. Business Intelligence Life Cycle using Unified Modelling Language(UML).

**Xintra Computer Training Center, Malden, MA** June 2002 to March 2003

**System Administrator and Instructor**

Supported and maintained desktop and server computers for training center. Installed UNIX operating system on Wintel platform, setup desktop computers, maintained Microsoft Network and resolved network and desktop issues.

Taught the following classes to day and evening students:

- Bioinformatics
- Unix and Perl Programming
- Oracle 9i Development

**John Hancock Funds, Boston, MA:** December 1995 to October 1997

**Software Consultant**

Developed and Supported applications in Visual Basic, SPS (Sales Productivity System), SQL Server, Crystal Reports. Converted the SPS Proprietary database (application for sales reporting & tracking) to SQL Server database. Created database tables, queries and stored procedures in the SQL Server database Server. Using Access database, converted data from external sources to Access tables. Wrote Import Maps to import data to SQL Server database. Created over 35 tables and import maps. Produced Sales vs. Goal and Daily Big Ticket Report using Visual Basic, Access and Crystal Reports

**EDUCATION:**

SAS Certified Base Programmer

Presently enrolled: Certificate in Applied Statistics, University of Massachusetts, Lowell

Certificate in UNIX: University of Massachusetts, Lowell, MA 2001, GPA 3.2

M.S. Industrial Engineering, Kansas State University, Manhattan, KS, GPA 3.6

B.S. Mechanical Engineering, Gauhati University, India, First Class

**U.S. Citizen**

References available upon request.