

Jim C. Nasby
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Professional Objective

To play a vital role in the architecture and design of databases, especially in complex or otherwise challenging applications.

Database Skills

General Architecture: Design of object model and schema with an emphasis on ensuring data validity and integrity (expert).

Oracle: PL/SQL (expert), Performance tuning (intermediate), Administration (intermediate).

PostgreSQL: Development (expert), Performance tuning (expert), Administration (expert).

Microsoft SQL Server 2000: Stored Procedures (intermediate), Performance tuning and monitoring (intermediate), Administration (beginner).

IBM DB2 (version 7): SQL Stored Procedures/UDFs (advanced), Performance tuning and monitoring (advanced), General installation and maintenance of DB2 on Windows, Linux, and AIX (intermediate).

Sybase 11: Stored Procedures (advanced), Performance tuning and monitoring (advanced), Administration (advanced).

Embedded Databases: PointBase, JDataStore.

Computer Skills

System administration: FreeBSD (expert), Linux (advanced), Windows (intermediate), AIX (beginner).

Languages: SQL (expert), shell (expert), Perl, PHP, Visual Basic (intermediate).

Employment History

Senior Engineering Consultant

Pervasive Software (<http://pervasive.com>) (Austin, Texas)
August 2005–Present

Technical expert on PostgreSQL. Provide consulting and support services for internal and external customers.

Database Architect

Symbiot, Inc. (<http://symbiot.com>) (Austin, Texas)
November 2003–May 2005

Responsible for all aspects of the database embedded in Symbiot's various internet security products. Went from full-time to contractor status in August of 2004.

Achievements:

- Migrated existing PostgreSQL database to Oracle
- Designed and wrote database interface using Oracle packages and JPublisher
- Supervised an intern in the creation of a JUnit based unit test framework for the database
- Migrated database back to PostgreSQL

Database Consultant

Momentum Software (<http://momentumsoftware.com>) (Austin, Texas)
May 2003–November 2003

Various consulting assignments

Achievements:

- Designed schema that accomodates US as well as international postal data. Designed matching routine to mimic software that would eventually use the database. Performance testing under PostgreSQL, PointBase, JDataStore, and MS SQL.
- Assisted in performance tuning and rollout of an online dating website using MS SQL.
- Assisted in conversion of a database used by remote offices from a single point database to a distributed database using multi-master replication in MS SQL.

Lead Database Architect

*United Devices (<http://ud.com>) (Austin, Texas)
December 2000–February 2003*

Responsible for all aspects of the database embedded in MetaProcessor software, the largest GRID/distributed computing platform currently in existence. Majority of development was done in IBM DB2, but the database is designed for implementation on DB2, Oracle, and MS SQL.

Achievements:

- Finished transition from MySQL to DB2
- Improved data integrity and performance by working with server coders to move non-atomic operations into stored procedures, resulting in an 8x performance increase
- Performed a major redesign to further improve performance and data integrity, and to meet changing product goals
- Worked with QA team on load and stress testing of database
- Helped define a high-level language in XML that was used to generate database schema and code for both DB2 and Oracle, HTML documentation, as well as code for other parts of the system
- Actively participated in the design and specification of the overall system

Design Engineer

*Motorola, Inc. (Electrical Engineering position) (Northbrook, Illinois)
August 1997–June 2000*

Designed system architecture for next-generation Powertrain Control Module, changing from an 8086 based CPU to a PowerPC based CPU, as well as changing to several new custom ICs. Responsible for electrical design of the PCM.

Achievements:

- Worked with Ford, Motorola, and supplier engineers on requirements definition
- Worked with in-house board designers and production lab to produce prototype hardware
- Worked with mechanical engineering team on packaging and thermal considerations
- Worked on design and coding of first generation test software in C

Business Partner

*Underground Sound and Lighting, Ltd. (Chicago, Illinois)
August 1992–December 1998*

Started as a student group at IIT, in 1995 myself and two others incorporated and purchased \$50,000 of equipment. We provided sound and lighting services to several bands and bars in the Chicago area, as well as Loyola University.

Database Developer

*Motorola, Inc. (Electrical Engineering position) (Northbrook, Illinois)
January 1995–August 1997*

Started as a CO-OP Electrical Engineering position before going to full-time.

Projects:

- Re-coding, debugging, and optimization of an MRP system written in Microsoft Access.
- Some minor EE projects

Database Architect

*distributed.net (<http://distributed.net>, volunteer position)
January 1998–Present*

distributed.net is the oldest internet-based distributed computing system in existence today.

Work with other volunteers to develop and maintain the statistical system that allows participants to view how much work they've done. I am the primary architect for the statistical database. Additionally, I maintain the processing system which is written in Perl, and help maintain the PHP website code. I am currently serving on the board of directors.

Projects:

- Worked on partial redesign of older system to improve normalization and data integrity
- Migrated from Sybase 11.0.3 to PostgreSQL
- Provide technical database/SQL guidance for other volunteers

Education

BS in Electrical Engineering, May 1996
Illinois Institute of Technology (Chicago, Illinois)

Memberships/Activities

United States Parachute Association Accredited Skydiving Coach

October 2004–Present

Responsible for training beginning skydivers how to jump safely with others. The training for this rating deals heavily with teaching concepts, such as chunking, lesson pacing, and primacy/recency.

Triangle Fraternity:

Undergraduate Treasurer

January 1992–December 1993

Responsible for all financial aspects of the Undergraduate organization, a \$125,000/year operation; including payroll processing and taxes.

Undergraduate President

1994

Responsible for operation of the Undergraduate organization.

Alumni Treasurer

1996–1999

Responsible for financial aspects of the overall chapter, including mentoring and auditing Undergraduate Treasurer.