CLAUDIU STOENESCU

Extensive experience in software engineering, systems analysis and design, logical and physical database design, database administration and extensive performance tuning, UNIX administration. Experience with a broad range of software environments on various hardware platforms.

**Operating Systems** Ubuntu 12.x, Red Hat 6.x, Solaris 2.x, AIX 5.x, HP-UX 10.x

**RDBMS** Oracle 11g, Oracle 10g, MySQL Percona Server 5.5

**Big Data/NoSQL** MongoDB 2.4

**High Availability/DR** RAC 11g, Data Guard, MongoDB Replication/Sharding, MySQL Replication, Shareplex

**Languages** Java Script, UNIX shell scripting, Perl, C, C++, Java

**Database Tools** OEM Grid Control, Toad, DBArtisan, MongoDB MMS, Nagios, Cacti, MONyog, Datadog

**UNIX Administration** Logical Volume Manager, sar, iostat, pstat, vmstat, glance

**Networking** TCP/IP, BSD Stream Sockets

**Methodologies** Information Modeling, Entity-Relationship Model, Structured Analysis and Design, OOAD

**CASE Tools** Erwin, Designer 2000, Deft, Popkin’s System Architect

**Industry experience** Gaming and Entertainment, Application Hosting, Software development, Telecommunications, Financial, Retail, Transportation

# ACCOMPLISHMENTS

* Architected, designed, implemented, administered and maintained very large databases accessed by thousands of users for OLTP applications
* Managed hundreds of MongoDB production and development servers
* Created and managed many replicated sharded clusters and wrote complex cluster backups and restore distributed scripts
* Lead production DBA of 24/7 mission-critical databases
* Implemented highly available databases, using Data Guard, Shareplex and TAF
* Designed and built automated tools for incremental database upgrades
* Performed logical and physical database design by using a variety of CASE Tools for telecommunications, financial services and retail
* Wrote numerous applications using PL/SQL procedural options (stored procedures, triggers, functions, packages)
* Installed, upgraded, configured, tuned to optimal levels and assured the day-to-day operation of database servers from development and system/user acceptance testing to production
* Built and maintained scripts (UNIX shell, Perl, SQL) for cross platform data migration, large volume data loads, automated log scanning, archiving and reporting, backup/recovery

# EMPLOYMENT HISTORY

**IGN Entertainment, San Francisco, CA** 12/2012-present

*Sr. Oracle DBA*

Administered Oracle Financials production databases 11.2 running on Red Hat 6.2. Monitored databases using OEM 12c, tuned SQL and fixed many slow performing queries. Analyzed performance using AWR report, ASH, trace level 10046, and real-time monitoring. Upgraded database environments from 10g to 11g, and installed CPU patches. Installed Oracle 12c and created CDBs and PDBs, used Data Pump full transportable feature to consolidate older databases from multiple hosts. Responsibilities also comprised managing and monitoring MongoDB and MySQL servers using tools such MMS and Monyog.

**Ross Stores Inc., Pleasanton, CA** 7/2011-12/2012

*Lead Oracle DBA/Performance Tuning Specialist*

As lead of the Engineering and Infrastructure database group, delivered mission critical database projects, setup database standards and procedures and acted as level three support for all Ross severity one production incidents, especially performance related issues. Lead five complex technical refreshes, including upgrading 8i and 9i of 10+ TB databases running on Solaris 8/9 to 11g/Solaris10, including migration to ASM. That comprised tuning carefully instance parameters and use 11g new features to improve performance and ease administration. Conducted many performance tests, including using Real Application Testing to ensure that performance would not degrade after upgrade. Tuned SQL and instance parameters for new and existing slow performing databases. Improved performance of a mission critical database four folds after a severity 1 performance incident. Created many baselines to stabilize execution plans, optimized plans and reduced CPU, logical and physical I/Os. Tuned performance of PeopleSoft databases and fixed many queries that degraded after the upgrade. Upgraded a 5-node RAC on RHEL4 from 10g to 11g.

**PG&E, San Ramon, CA** 11/2009-7/2011

*Sr. Oracle DBA*

Administered and maintained over sixty development, test, QA and production (over 10 TB) databases running Oracle 10.2.0.4 on Aix 5.3. Customized OEM Grid Control to manage production databases. Customized Unix database servers to improve database administration and monitoring. Tuned performance of production and staging databases. Performed SQL, and database instance tuning using a wide range of technologies including ADDM, AWR, Statspack, extended SQL trace (event 10046 trace files), OEM Performance Manager, and custom scripts. Implemented stored outlines in production to fix SQL issues. Worked on many PG&E projects, deployed new releases and built new databases. Cloned development, test and QA databases from production and archived large production partitions into an archiving database. Performed DR exercises and recreated physical standbys from tape backup using RMAN duplicate. Created and administered production physical standbys. Applied CPU security patches in development and production. Improved monitoring and developed many scripts and tools for database administration. Reorganized RMAN backups. Helped developers, testers with daily Oracle database administration related tasks.

**8x8, Sunnyvale, CA** 8/2009-11/2009

*Sr. DBA*

Administered PeopleSoft Oracle 10g databases running on Solaris, as well as MySQL production databases. Worked closely with developers and testers on database related issues. Identified performance bottlenecks in production and made many changes that improved performance dramatically. Reorganized production databases and improved them. Created many scripts and tools to help with monitoring, backup and performance tuning.

**Verizon Business, San Francisco, CA** 12/2007-08/2009

*Lead DBA*

Administered hundreds of databases on various platforms, Solaris, HP-UX, AIX, and Linux. Installed, upgraded and patched Oracle databases from 9i to 10g and 10g to 11g, in dev/QA and staging environments in preparation for production deployments. Setup and configured physical and logical standby databases using Data Guard for reporting purposes. Evaluated, setup, and configured database tools for Oracle and MySQL databases. Tuned database performance, both database parameters and inefficient SQL and removed production performance bottlenecks. Developed tools and scripts for Oracle and MySQL database administration. Improved efficiency of database administration for hundreds of customer databases through Opsware PAS automation and better standards and procedures. Developed scripts to parse alerts and, as a result, reduced the overall number of database alerts by 80%. Created UNIX navigation scripts to hundreds of nodes and databases based on Opsware’s nodes structure

**Pay by Touch, San Francisco, CA** 8/2003-12/2007

*Lead Oracle DBA*

Administered and maintained more than a hundred development and production Oracle 9i/10g Linux databases, for this biometric payments company. As their first DBA, designed the database layer from scratch, setup standards and tools, created development and production databases. Created database standards and developed extensive monitoring scripts. Tuned database performance, conducted numerous database benchmarks, and certified initialization parameters to be deployed to production. Installed and patched databases in all environments from development to production in a uniform and standard way. Set up and configured physical and logical standby databases using Data Guard, and transparent failover for high availability and reporting. Installed and monitored Shareplex secondaries for highly available production databases. Planned, coordinated and flawlessly executed a datacenter migration with minimal downtime. Developed packages and stored procedures for database administration. Developed RMAN backup scripts and tested recovery scenarios. Developed complex stored procedures to implement ACH payments. Hired, mentored and coordinated a team of senior DBAs. Participated in a rotating on-call schedule.

**Oracle, Pleasanton, CA** 1/2002-8/2003

*Sr. Oracle DBA*

Designed, built and administered large PeopleSoft environments on Oracle 9i/Sun Solaris 8 and SQL Server 2000, available for performance testing during the development cycle. Coordinated the team of development performance leads, to uncover and to address performance issues in early development stages. Setup the PeopleSoft 8.4 and 8.9, defined environment refresh procedures, performed and coordinated the builds. Administered the environment, troubleshot issues and tuned performance at the database instance level, application servers and web servers. Tuned performance of PeopleSoft Financials products such as Projects and Grants on Oracle 9i/Sun Solaris 8.

**Cygent, San Francisco, CA** 2/2001-11/2001

*Lead Oracle DBA*

Performed both logical and physical database design for the eBusiness Support System (eBSS) product, a web-based application for the communications industry, architected on Oracle 8i/Sun Solaris, WebLogic/WebSphere, EJB and Toplink. Developed an automated tool for database upgrades, used for releasing the product to customers. Improved existing database development standards and SQL review procedures. Reviewed SQL code and mentored developers. Built system stored procedures for database administration, monitoring and performance tuning. Reviewed and reconfigured the performance testing environment running Oracle 8.1.7 on Sun Solaris 2.7. Tuned initialization parameters, rebuilt tablespaces with uniform extents, rewrote inefficient SQL, optimized indexes. Migrated the database to cost-based-optimizer.

**Management Board Secretariat**, 5/2000-12/2000

**Government of Ontario, Toronto, Canada**

*Sr. Oracle DBA*

Migrated Service Center’s proprietary database, Peregrine 4, to Oracle 8.0.6 running on AIX 4.2. Planed, created a step-by-step execution document, and conducted the migration. Installed, configured Oracle 8.0.6 and Oracle Enterprise Manager in development, test and production environments. Developed PL/SQL and UNIX scripts for database administration and tuning. Tuned system’s performance for both UNIX and Oracle. Developed monitoring scripts for ongoing tablespace maintenance including rollback tablespaces as well as for the overall performance of the Oracle database and also designed and implemented Oracle backup/recovery policy.

**Accenture, San Ramon, CA** 11/1996-10/1999

*Lead Database Administrator*

Architected a very large 11.5 Sybase database of 1 TB on Sun Solaris 2.6 for the Iridium project, a satellite-based, global wireless personal communications system. Designed the physical layout, planned capacity, configured dataservers and extensively tuned performance. Designed and developed a backup/recovery mechanism along with a set of utilities (Perl) for Disaster/Recovery. Designed setup and configured the performance test and production databases. Developed a set of tools to automate the process of installing and configuring dataservers. Developed data generators for a variety of call scenarios. Integrated ERwin with the revision control system. Developed a set of tools for incremental database builds used to automate the process of applying new releases and patches to production databases. Served as a database administrator for an Oracle 7.3.4 database of over 40 GB of data, running on a HP K400 for a Network Systems Management Center. Managed physical and logical storage and system resources, monitored database activity, tuned the database, and implemented a backup strategy.

**Bell Mobility Cellular, Toronto, Canada**  4/1995-11/1996

*Lead Sybase DBA*

Designed and administered a very large Sybase 11.0.1 database of 1 TB on HP-UX 9.x for the Message Processing System project, a real-time collector of call detail records and rating interface for the billing system. Developed a set of concurrent loaders, satisfying both performance and data integrity requirements. Architected and developed a data navigation mechanism, based on linked lists, to ensure fast access to call information, by traversing partitioned databases of related call detail records. Architected a database space overflow mechanism, based on Sybase thresholds. Developed in Perl and shell numerous database intensive components. Planned capacity both for production databases and UNIX filesystems and designed the physical layout of the database. Installed and configured the production database on a HP T500 with striped and mirrored EMC disks. As lead production DBA, implemented the system, maintained, troubleshot and tuned performance. Developed a warm standby using Replication Server.

**Citibank Canada, Toronto, Canada**  8/1994-4/1995

*Sr. Sybase DBA*

Performed both logical and physical database design for the Back Office and integrated it with an existing Front Office system for the Global Derivatives System project. Developed complex stored procedures and triggers for referential integrity and enforcement of business rules. Served as database administrator for numerous servers running Sybase 10.0.2 on Sun Solaris 2.5. Installed, configured and administered Omni SQL Gateway for a project involving access to both Oracle and Sybase Servers.

**Ontario Lottery Corporation, Toronto, Canada** 3/1994-8/1994

*Sr. Sybase DBA*

Designed and developed an automated, multitasking, scheduled backup/recovery system, as part of the Contingency Planning Project, for Sybase Servers 4.9.2 running on Sun Solaris 2.5, having the ability to replicate data from a primary site to warm sites.

**Brewers Retail Inc., Mississauga, Canada** 8/1992-3/1994

*Sr. Sybase DBA*

Administered a large environment of production, QA and development Sybase 4.8 and 4.9.2 Servers running on Sun Solaris 2.4. Installed and upgraded database servers, applied patches, fixed database corruptions, performed migrations, backup/recovery and tuned performance. Developed numerous stored procedures for database administration. Redesigned the physical layout of the production databases in order to balance the I/O load. Built a server-to-server transport utility (C/SQL) for database objects along with their permissions.

**Computer Aided Finance Corporation, Brussels, Belgium** 9/1990-6/1992

*Sr. Database Engineer*

Worked on porting a portfolio management software package (400,000 lines of C code) to a client server architecture, using Sybase 4.0 on HP-UX 7.x and AIX 2.x. Performed logical and physical database design. Architected and benchmarked a solution that would allow retrieving scattered historical values of securities within milliseconds. Developed in C an automated testing tool with recording, playback and comparison capabilities, as a client-server application, using TCP/IP and BSD stream sockets to interconnect various UNIX platforms.

# EDUCATION

Masters in Computer Engineering**,**

University Politehnica of Bucharest, Romania

# CERTIFICATIONS

2013 M102: MongoDB for DBAs

2009 Certified MySQL Database Administrator (CMDBA)

1999 Certified Sybase Professional Database Administrator (CSP-DBA11)

1999 Certified Sybase Professional Performance Tuning Specialist (CSP-PTS)

1994-1995 Certificate with Honors, Canadian Securities

# TRAINING

# 2009 MySQL Performance Tuning, Santa Clara

# 2009 MySQL High Availability, Portland

2009 Microsoft SQL Server 2005 Development and Administration, San Francisco

# 2008 Oracle Database 10*g*: RAC for Administrators Release 2, Oracle, San Francisco

## 2008 Advanced Reactive Performance Management, OraPub, Santa Clara

2008 Forecasting Oracle Performance, Orapub, Santa Clara

1997 Advanced Oracle Database Administration**,** UC Berkeley, California

1997 Java: Discovering its Power**,** UC Berkeley, California

1994-1995 The Canadian Securities Course**,** The Canadian Securities Institute, Toronto

1993 Object-Oriented Design, University of Toronto, Toronto

1993 Information Modeling for Information Analysts, Syncretics, Mississauga

# PUBLICATIONS

Information Technology for the Transportation Industry, Bucharest, 1988

# LANGUAGES

English, French