

CHARLES (CHUCK) SCYPHERS

Highlights:

Data Architecture/Management:

Co-authored Master Data Management standards crossing multiple Federal departments to maximize reuse and internal cohesion. Architected global database solutions for numerous installations allowing for multiple language sets and time zone support with minimal day-to-day DBA requirements; Led multiple successful BPEL implementations; Acted as thought leader for a number of Oracle technologies (Streams/Advanced Queuing, HA/HT, Spatial, Text/InterMedia, Heterogeneous Systems, Workflow, etc.) and “NoSQL” technologies (Cassandra, CouchDB, Hadoop, MongoDB, Neo4J, Redis, Riak, etc.) for multiple clients; Configured fail-over solutions using clustered/replicated/distributed environments and hot standbys to ensure system availability in any situation; Supported several database systems with very high uptime requirements (as high as 99.999% on a single server & 100% with clustered resources) on a global scale; Managed multiple server farms consisting of development, test, Independent Verification & Validation (IV&V) and production databases; Designed fully extensible, data-driven solutions allowing for adaptability to changing circumstances without requiring altering any deployed code; Established standards for both database & system architecture; Devised backup/recovery strategy for multiple production environments, depending on suitability for client’s needs.

- Proven proficiency with examining/evaluating emerging technologies & processes for data management and data analysis.
- Extensive experience in HA/HT/VLDB systems
- Veteran of 7 startups, 3 positive exits, 2 neutral
- A broad track record of successful engagements ranging from large enterprise and government clients to small businesses.

Technical Writing:

Created operational manuals, design documents, ERDs, and white papers for technical end users (DBA, System Administrators, clients, etc.); Created white papers, technical justifications, design documentation and schedules for non-technical end users (clients, management, analysts, etc.); Written contract proposals, RFP responses and Statements Of Work; Wrote & led training sessions of internal staff and both internal and external developers on SQL and PL/SQL issues, presentation skills and Hadoop; Developed lightweight Engineering Methodology, based primarily upon eXtreme Programming.

Management:

Managed employees across multiple skill sets at multiple client sites; Assisted clients with purchasing and planning decisions, balancing future viability, scalability & supportability against financial resources, human engineering & system utilization constraints; Managed & led multiple migrations across database versions and vendors, hardware platforms and geographically disparate locations; Created 24x7 support schedules for multiple production systems with minimal resources; Mentored junior employees & cross-trained staff for more effective team performance

Technical

Skills:

Experience in SQL (Oracle 11g, 10g, 9i, 8i, 8.0.x, 7.3.x, 7.2.x, 7.1.5; MySQL 5.5, 5.4, 4.0.18; MS SQL Server 2000), NoSQL (Cassandra 0.8.7, CouchDB 1.1, Hadoop (CDH r2), MongoDB 1.8.2, Neo4J 1.4.2, Redis 2.2.15, Riak 1.0), Ruby (1.9.2) on Rails (3), Python 3.2.2, R 2.14, CASE Tools (Oracle Developer 6.0, 2.0, 1.5; Designer 9i, 6i, 6.0, 2.0; Workflow 2.6, Forms 3.x; Reports 1.1.x), Oracle DBA Tools (Oracle Enterprise Manager 10g, 2.x, 1.x, Qwest IWatch, TOAD, Precise Indepth), Oracle Networking (Net8, SQL*Net v2, Names, LDAP/Oracle Internet Directory), High Availability Solutions (Oracle: RAC, DataGuard, Standby, Replication; MySQL Clustering; CouchDB, Riak); Web Server (Oracle Application Server 4.x, 3.x; Oracle internet Application Sever 9iAS, 1.0.2.0.1), Oracle options (Streams, Advanced Queuing, Text, interMedia, Partitioning, Spatial, Objects), Oracle Heterogeneous Solutions (Fusion, GoldenGate, Messaging Gateway), Kerberos, UNIX Shell scripts (*bash*, *k*), Pro*C, C, C++ (Visual, Borland), PHP 4.3.4, HTML, Java, Perl 5.0, JavaScript, Visual Basic, Pascal, FORTRAN, BASIC, Lisp, Prolog, UNIX (RedHat Linux ES, AS; SunOS 4.5, Solaris 2.9.x, 2.8.x, 2.7.x, 2.6.x, 2.5.x; HP-UX 10.0.x, 9.0.1; Digital Unix 4.0d), Windows XP, Windows 2000, Windows NT (4.0, 3.51), Windows 98, Windows 95, Windows 3.x, Novell 4.1, Next, Internet, Mac, VAX, MS Office.

Clearances:

DOD S (Debriefed February 2007)

DOD TS/SCI (Debriefed August 1998)

DOJ S (Debriefed February 2003)

Work

Experience:

Daemon Consulting, LLC

Various Locations – Client List Available On Request

Apr 1995 – Present

Performed technical patent evaluations for eventual sale. Spoke at international user conference (Gilbane Boston 2010) on The Politics Of Federated Queries. Validated database architecture for enterprise systems. Created custom PL/SQL ETL process from undocumented legacy system. Created SQL utilities to perform various DBA tasks (exporting Oracle database objects to a script, extracting jpg files from BLOB data fields, etc.). Migrated several SQL Server databases into Oracle. Installed Oracle databases on a variety of systems. Managed sub-contractors with regards to both timely and within budget delivery of product.

Resume Everywhere

Mclean, VA

Jul 2010 – November 2011

Founded company; Handled all business functions, including financial projections, accounting, marketing, business development, hiring and equity allocations. Performed all database related activities, including architecture, design, development, deployment and maintenance. Initiated partner relationships. Created new lines of business, including landing sales prior to product deployment. Addressed high level architectural issues across all elements of the enterprise, working with other employees to ensure scalability and cost efficiencies.

Architecture:

- Identified as the Thought Leader for all data-oriented technologies within the company (most of which have numerous successful implementations at multiple clients). For a partial list, please see the table on the right.
- Created standards as well as both a development methodology and an administrative methodology for company-wide deployment, including all collateral and templates.
- Created more efficient ways to distribute both high level and detailed knowledge throughout the enterprise at greatly reduced cost.
- Worked to optimize ETL and GIS data for government enterprise datawarehouse.
- Led optimization effort for financial datawarehouse, focusing on efficient partitioning strategies.
- Provided roadmap to large federal department regarding migrating their hosting environment from a classic managed services physical circumstance to a third party virtualized environment.
- Led audit of the datawarehouse environment for a very high profile telecommunications firm.
- Created migration process by which single server database solution was migrated to a geographically distributed, clustered solution with extremely high fault tolerance.
- Worked closely with business analysts, development, network and system engineers to develop and maintain high availability, high throughput middleware systems in various secure environments.
- Architected global database solution for installations allowing for multiple linguistic and time zone environments with minimal day-to-day DBA requirements.
- Assisted government clients with purchasing and planning decisions, balancing future viability, scalability and supportability against financial resources, human engineering and system utilization constraints.
- Devised backup/recovery strategy for multiple production environments.
- Adapted Configuration Management methodology, conforming to both Rational’s best practices and the client’s daily business needs.
- Architected, developed, tested and deployed highly extensible XML/XOP middleware solution, managing ETL-like operations in sub-second response times while using dynamic allocation.
- Trained and mentored junior resources.
- Cross-trained resources to maximize team availability.
- Worked closely with developers to resolve technical issues.

Data Architecture	Oracle	NoSQL
Data Mining	Advanced Queueing	Cassandra
Data Warehousing	Data Guard	CouchDB
	Exadata	Hadoop
Heterogeneous Systems	GoldenGate	HBase
	Partitioning	Hive
High Availability	RAC	Pig
High Throughput	Replication	MongoDB
OLAP	Spatial	Redis
Security	Streaming	Riak

Hands-On Technical:

- Supported several database systems with very high uptime requirements (Congressionally mandated 100% availability) on a global scale.
- Installed and configured fail-over solutions using Data Guard, RAC, clustering and hot standbys to ensure system availability in any situation.
- Managed multiple server farms of consisting of development, test, IV&V and production databases.
- Managed and led multiple production migrations – to new hardware platforms, to a redundant geographically distinct fail-over site(s) and upgrading across multiple versions.
- Implemented LDAP solution in an Oracle environment, allowing for enterprise wide deployment of new systems and user accounts while minimizing administrative requirements.

Management:

- Managed Guident employees across multiple skill sets (database, systems, networking, development, analysis) at multiple client sites.
- Created new lines of business, grew existing business at multiple client sites, bringing in new contracts and additional revenue streams.
- Interviewed potential employees for suitability at various client sites.
- Worked with client to manage expectations and grow additional business.
- Created 24x7 support schedules for several production systems with minimal resources.

Technical Writing:

- Worked with other team members to craft business proposals.
- Participated in architectural, design, data modeling and code reviews.
- Created and led training sessions of other developers on both SQL and PL/SQL issues.

Public Speaking:

- Oracle Business Intelligence, Warehousing and Analytics 2008 on Operational Data Stores (ODS)
- MAOP 2010 on J2EE ORM Applications (with Heather Toombs).

Managed team of employees responsible for all database activities (development, administration and architectural). Opened new pipelines of contractual work and partnership into the organization. Worked with other IT resources to develop a robust, scalable enterprise architecture, focusing on hardware utilization, software resources, human engineering and budgetary constraints. Developed standards for both database and system architecture. Created 24x7 support schedule for 99.999% uptime production systems with extremely few resources. Developed Engineering Methodology (based primarily upon eXtreme Programming) for CGH engineering staff. Introduced Configuration Management principles into the CGH environment. Designed, modeled and developed all database objects for an FAA internet OLTP application, heavily leveraging Oracle Advanced Queuing, while working closely with both the application developers (J2EE and EJB) and presentation developers (JSP, PHP and DHTML). Administered a small server farm of Oracle databases in a 24x7 environment (99.9% uptime). Collected metadata into common repository to further extend knowledge management and integration with foreign data sources. Migrated production servers from Oracle 9i to 10g with minimal downtime and service interruption. Worked closely with GIS team to develop Oracle systems leveraging Oracle Spatial with ESRI ArcIMS. Worked with other members of the organization to create both Statements Of Work and Contract Bid Proposals, focusing on long-term performance and future flexibility. Replaced application based workflow with a data-centric approach. Developed database architecture so as to maximize flexibility of the application as well as minimizing development resources. Consolidated multiple database development efforts into a single unified project, maximizing the available resources and further normalizing common data between disparate systems. Implemented LDAP solution in an Oracle environment, allowing for enterprise wide deployment of new systems while minimizing administrative requirements. Participated in architectural, design and code reviews. Created and led training sessions of other developers on tuning both SQL and PL/SQL.

Realeum*Mclean, VA***Feb 2002 – Dec 2002**

Led performance improvement team, focusing on increasing database scalability and throughput through entire system (Transactional, Reporting, Internal Processing). Re-architected new Reporting subsystem for Enterprise Financial system from legacy requirements, maximizing throughput, stability and scalability. Prototyped Data Warehouse/Operational Data Store architecture for more efficient reporting, data mining operations and ad-hoc query support, including dynamic metadata support. Created new policies and procedures for other DBAs to follow so as to maximize group efficiency and reporting to senior management. Handled tasking of other DBAs. Led two production migrations, one from loading dock to production in six days, one to off-site hosting facility. Created database architecture to allow easy integrations between the product and complimentary products. Implemented Oracle Designer as development environment. Extensively documented both legacy systems and new development. Worked with other divisions of organization to focus company direction towards broader markets and additional revenue streams. Worked closely with Java developers to resolve technical issues. Addressed long term planning for future growth of the product. Worked with Oracle regarding licensing issues.

Secure Telecom Innovations*Washington, DC***Mar 2001 - Feb 2002**

Created new database architecture for network security product. Created server architecture, maximizing flexibility, stability, recovery and scalability. Designed, modeled and created all database structures so as to facilitate porting the entire database to a non-Oracle solution with minimal effort. Designed, modeled and created database architecture to allow easy integrations between the product and complimentary products. Worked closely with C++ and Java developers to resolve technical issues. Addressed long term planning for future growth of the product.

Integrated Chipware*Reston, VA***Jun 1999 – Dec 2001**

Created new database architecture for shrink-wrap product. Created an out-of-the-box database solution that will adapt and optimize itself for almost any user's environment. Created stored PL/SQL objects to automate most DBA functionality. Migrated from legacy Oracle 5.x/client-server solution to Oracle 8i/multi-tier solution. Modified product from strict metadata structure to an object-oriented metadata structure. Optimized stored PL/SQL objects to use Oracle 8i enhancements (Advanced Queuing, Partitioning, Materialized Views, *et al*). Worked with Oracle regarding licensing issues and Oracle 9i. Worked with Oracle in alpha and beta test cycles of Oracle 9i. Eliminated backlog of outstanding enhancements and problems with existing schema, mostly concerning replication issues.

Oracle Consulting Services (Architecture Division)*Tyson's Corner, VA***Aug 1998 - Jun 1999**

Worked with major clients in deploying enterprise level systems. Worked on ETL system for 17-terabyte warehouse running Oracle 8i. Designed, modeled and implemented metadata repository for same warehouse, using custom PL/SQL code. Created and validated Architectural and Security implementation of DSS system. Created and administrated Oracle Discoverer 3.1x business areas against an Oracle 8.0.5 database supporting Oracle applications 10.7 (NCA/SC) on HP-UX 11.x and Windows NT 3.5.1 on a Citrix server. Performed DBA duties as needed. Tuned SQL statements for performance. Created PL/SQL procedures and functions to further business needs. Worked with client to determine business requirements. Performed UNIX administrative duties on an internal Solaris server.

Software Technology Incorporated (Government Services)Alexandria, VA
Jan 1997 - Aug 1998

Performed all DBA duties, including installation/upgrading, user and system management, backup and restoration of database, as well as limited NT and UNIX System Administrator and WebMaster responsibilities. Lead team on rearchitecture (including data architecture, data modeling, code development and testing/deployment) of legacy terminal system, migrated to Oracle 8.0.4/Developer 2000 intranet solution. System is designed to scale smoothly from 10 users and ~150G of data to 5000 users and ~50T of data while maintaining full compliance with all government security specifications and 99.95% uptime. Worked closely with end users, government managers and other developers to determine design specifications. Managed resources so as to meet scheduled timelines and coordinated with other government agencies for needed resources. Evaluated, Tested and made Purchasing Recommendations for all aspects of system, hardware and software, paying particular attention to upgrade paths and long-term viability of both hardware and software investment. Provided specifications for three-tier system to handle both OLTP and Data Warehousing functionality with high availability (99.9% uptime) and high throughput requirements. Responsible to very senior government officials regarding system development. Maintained legacy system using Oracle 7.1.x, Oracle Forms 3.x and Oracle Reports 1.1.x.

CBIS (CIG Division)Fair Lakes, VA
Mar 1996 - Jan 1997

Performed minor Oracle DBA duties, including backup and restoration of database. Wrote UNIX shell scripts for deployment in production system. Lead the Stress and Integration Test Team in verifying the functionality of a major telecommunication network management software system. Produced a shortened regression test plan to be executed with each build delivered to verify basic integrity of the build. Participated in architectural design reviews.

Best! SoftwareReston, VA
Apr 1995 - Mar 1996

Performed test duties upon product suite. Performed first and second tier technical support. Created C++ data conversion for major client. Implemented technical support methods that increased overall processing by 75%. Created training programs for other employees. Led reporting demonstration to customer base at national user conference.

Education:

Harvard University

Cambridge, MA

Sep 2009 - Present

Major: Masters in Liberal Arts (M.A.)**Concentration:** Information Technology

Virginia Polytechnic Institute and State University

Blacksburg, VA

Dec 1994 - Aug 1990

Major: Philosophy (B.A.)**Concentration:** Logic and Language**Certifications:**OracleDate AwardedCertification #

Database 11g Security

Sept 2010

237285165

Data Warehousing 11g Implementation Specialist

Sept 2010

237285447

Exadata 11g Implementation Specialist

Aug 2010

237285329

Enterprise Manager Implementation Specialist

Aug 2010

237285295

Partial Client**List:**

Government		Commercial	Verticals
Department of Agriculture	Federal Aviation Administration	AOL	Finance
Department of Defense	Food & Drug Administration	Aramark	Government
Department of Energy	General Services Administration	Comcast	Intellectual Property
Department of Justice	Government Printing Organization	Rite-Aid	Real Estate
Department of State	Koninklijke PTT Nederland (Dutch phone system)		Security
Department of Transportation			Telecommunications
Environmental Protection Agency	Sallie Mae		