

KENNETH GORMAN
Database Architect
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TECHNICAL SKILLS

Oracle 7~8~9i~10g * PostgreSQL * PL/SQL * Data Architecture and Design * Veritas * Replication * Backup and Recovery * RAC
9i/10g * Partitioning * VLDB * Performance tuning * Solaris 7/8/9/10 x86/Sparc * Linux * Various filesystems * Sun Enterprise and
commodity x86 hardware * storage performance/config * bash/python/perl * relational design * Mentoring team members/Team Lead *
documentation/html/wiki/xml * MS project * MS office * OSX * rrd * statspack * capacity planning/system sizing * performance
engineering/tuning * architecture and system design * Solid State Disk * EMC/HDS/Netapp/Sun Storage * memcached * hadoop/mapreduce

EXPERIENCE/PROJECTS

January 2008 - Present Hi5 Networks San Francisco, CA

Data Architect

- Responsible for architecture and design of 150+ PostgreSQL database servers, and 100+TB of storage growing about 1m+ users per day, and 500,000 transactions per second for 60million+ users.
- Team Lead responsible for final approval of schema design, indexing plans, and data partitioning.
- Implemented data clustering plan, saved over 50% of compute resources on database servers.
- Implemented plan to move to low cost high performance servers to increase scalability and lower costs.
- Designed backup plan, handed off to DBA staff for implementation.
- Implemented internal tools to manage growth patterns, sizing, and performance using python and rrdtool.
- Contributed to open source community including custom coding patches in C : pgstat and pgreorg
- Created test lab to test various performance improvements. Documented results, created projects based on findings.
- Tested and recommended hardware config, tested PostgreSQL performance settings including direct IO, and SSD.
- Created tools to mass recover PostgreSQL database corruption due to SAN issues.
- Implemented re-architecture of a 90 node memcached cluster to improve caching performance.

November 2006 - January 2008 Quigo Technologies San Jose, CA

Principle Database Engineer/Architect

- Architect of new database systems and architectures, scalability and capacity planning.
- Production DBA, Responsible for all production databases.
- Systems include near real time data warehousing, OLTP, replica databases for ad serving across the country
- Linux/64, 10g/RAC, logical, physical standby's, and replicated adserving databases.
- Wrote system monitoring, management and graph suite in rrd/python and perl.
- Tuned high throughput systems, designed new architectures to accommodate growth and scalability.

April 2002~November 2006 eBaY/Paypal San Jose, CA

Principle Database Engineer

- Production DBA. Responsible for all production databases, including multi-terabyte, high throughput OLTP systems on Sun, and Linux platforms and Hitachi SAN storage.
- Oracle 9i RAC migration from IBM AIX to Sun Solaris on RAW devices. RAC tuning, config and setup.
- Responsible for migration to Fujitsu platform from Sun for critical systems. Performed lab testing, authored white-papers showing test results, worked with the best minds at Sun and Oracle on the project.
- Wrote capacity planning, troubleshooting, and forecasting software using perl/rrd and statspack.
- Mentored DBA team, showed leadership/senior role, trained new DBA's in oncall and triage techniques.
- Wrote automation software designed to auto-clone 1000+ QA instance cluster for QA testing. Self service model via database metadata on Netapp utilizing copy on write snapshots and perl automation.
- Re-presented database team in Joint Architecture and Design meetings. Decision maker in new architecture.
- Involved or responsible for response 24/7 for nearly 5 years of oncall coverage for very high transaction systems.
- Wrote monitoring, maintenance, and forecasting scripts in perl. Scripts in use for many years.
- Ebay SWAT rotation; first responder to triage critical systems, communicate with NOC and quickly resolve production issues. - -
- Mentor other DBA's
- Developed tools to ease transition for new DBA's.
- Worked with Product Development on constant SQL tuning regime. Responsible for shared pool tuning saving production systems 20% in parse overhead.
- Utilize statspack, 10046 trace, tkprof, explain plan, and other tuning techniques on a routine basis to tune production databases. Proven performance gains with direct impact to business metrics.
- Attend meetings, communicate on difficult technical issues, take input from Product Development, attend seminars, and work directly with Oracle support on complex technical database issues.
- Consult, design and implement DSS systems that perform large query loads for business users on a daily basis. Implement profiles, query tuning, schema design, and ETL load procedure for DSS and Finance systems.
- Work closely with Operations and Product Architecture as DBA technical consult. Make recommendations on capacity, sizing, DR, and performance aspects of new architectures.
- Created test lab for POC on various projects including RAC, OSX, ASM, ASSM, Logical Standby, ETL. Project results have direct technical impact on live implementations.

April 2001~April 2002 Kenamea San Francisco, CA

Senior Database Administrator

- Production DBA. Responsible for Kenamea Application Network service. Responsible for database SLA requirements.
- Designed Kenamea product/service database schema from scratch.
- Wrote Java and PL/SQL utilities for replication of data and change management processes.
- Implemented DBA policy, including Disaster Recover Plan, Backup/Recovery Plan, Change Management Plan, SLA guidelines.
- Implemented and managed production, stage, qa, and development database environments.
- Implemented Oracle9i databases for monitoring and management, Oracle8i for production/stage/development.
- Performed capacity planning, tuning, and system sizing for production grade database on Sun Enterprise Hardware.
- Mentored development staff on design choices and good SQL practices.

- Provided requirements to Sysadmin staff on architecture of Solaris 8 systems for optimal database performance.

November 2000~April 2001 Musicbank.com San Francisco, CA

Senior DBA

- Production DBA. Responsible for 24x7 uptime and performance requirements for clustered OLTP, single OLAP, and other production databases > 1/2 TB. On-call status.
- Responsible for all architecture, configuration, platform, and other business-critical decisions.
- Responsible for tuning, backup /recovery, and administration of all db systems including documentation of policy.
- Implemented and managed 2x HA (hot/hot) cluster using Veritas Cluster Server, Volume, and File system components. Cluster utilized Sun Enterprise hardware and storage. Wrote cluster-aware backup and mgmt tools/scripts.
- Designed and implemented management server for monitoring/alarming/capacity planning for entire environment using native Oracle tools/shell scripts featuring http based collection and olap-style web reporting capabilities.
- Performed Oracle 8i tuning, sizing, and vldb performance enhancements on all systems to meet workload requirements.
- Designed database infrastructure, including complex meta-data update process from vendors.
- Worked with Sysadmin staff on key Solaris configurations (Dynamic Reconfiguration, Dynamic Multipathing).
- Developed change management process for critical db systems.
- Improved BEA Weblogic connection and performance issues through testing and enhancements to core system.

July 1999~November 2000 Backflip.com San Francisco, CA

Production DBA

- Production DBA. Responsible for 24x7 uptime and performance requirements for 1/2TB OLTP system and 1/2 TB OLAP databases. On-call status.
- Implemented scalability strategy for Oracle 8i OLTP and OLAP platform using Veritas components to allow the Backflip service to scale to multi-million's of users.
- Implemented new Sun database architecture w/ > 1TB of RAID disk. Tuned Veritas and Oracle for optimal performance and uptime. Performed database migration to new platform.
- Implemented complex ETL procedure for population of Oracle OLAP system. Maintained and expanded load procedures to load OLAP star schema and meet business objectives.
- Responsible for configuration, setup, and synchronization of Staging and Development environments.
- Developed custom alerting/alarming and performance monitoring suite w/ web based console in Perl and shell scripts. All data is saved in data warehouse for analysis and long term capacity and performance prediction/planning.

January 1999~July 1999 CitySearch Inc./Match.Com San Mateo, CA

Staff DBA

- Responsible for tuning, PL/SQL coding, and day to day management of 40GB OLTP database.
- General DBA responsibilities include support of engineering staff on high availability UNIX and NT platforms from site design phase to release/roll-out.
- Worked with contract DBA's to engineer new instances, policy, and system architecture to support transaction oriented 2.2 million member Match.Com web site.
- Wrote scripts to manage size, disk allocation, roll-out phasing, and performance enhancement.
- Developed complex PL/SQL stored procedures, packages, and triggers for Match.Com 2.0 site.
- Tasks included CFML/HTML coding, PL/SQL coding and some PERL scripting to business team specifications.

January 1997~January 1999 Business Resource Group San Jose, CA

Staff DBA

- Staff DBA. Responsible for production and development instances on Oracle 7.3 and 8 on UNIX and NT company wide. Duties included backup/recovery, tuning, replication, import/export, support of development, and Oracle WAN.
- Authored/Implemented corporate web CMMS interface on Oracle 7.3 for Hewlett Packard Labs, Palo Alto. Project involved complex SQL, stored procedures, and triggers and development of a user friendly web front-end.
- Authored Archibus/FM for Oracle Guidelines document. Document outlined sizing, backup/recovery, and tuning requirements for 3rd party product.
- Authored/Implemented corporate web CMMS for Lincoln Property Company, Dallas TX. Managed design and implementation effort in addition to product specification, design, and roll-out. Project involved complex business logic implementation via SQL and stored procedures through a web front-end.
- Documented and performed upgrades and modifications to Cisco Systems Worldwide Facilities Group Sybase DB system. Wrote scripts to synchronize customer Facilities Oracle database with CAD drawings.

February 1996~January 1997 Bailey Associates San Francisco, CA

Consultant

- Implemented cornerstone facilities database for Charles Schwab, Inc. San Francisco, CA. Project included system sizing, tuning recommendations, implementation/benchmarking, and testing cycle.
- Engineered custom web-to-database connectivity package to allow CAD drawings to show corporate space utilization real-time. Product highlighted in numerous conferences and on Autodesk web site.

EDUCATION

1997-2001 Oracle Education San Francisco, CA

- Oracle Masters Level
 - Oracle Parallel Server, Oracle Scalable Systems
 - Certification Complete. Oracle Certified Professional.
 - Oracle 8 DBA Administration, Oracle 8 Backup and Recovery, Oracle 8 PL/SQL, Performance Tuning
- 1998 Executrain San Jose, CA
- MS Project
- 1994-1995 University of Colorado Denver Denver, CO
- Coursework