

Joseph T. Peppersack

Principal Systems Architect

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Summary

- A creative hands-on leader with over 20 years experience, exceptional technical skills, and a business-focused outlook
- Background in both software development and systems operations, spanning diverse industries, gives an unique perspective on how to create and deploy highly scalable, reliable, and secure systems that deliver a positive return on investment
- Extensive career commitment to staff development and team building through mentoring, teaching, and knowledge transfer
- Open to permanent leadership positions as well as long and short term consulting opportunities

Key Accomplishments

Leadership

- Led effort to migrate a hosted application to a cloud-based architecture, to achieve projected 90% cost savings while increasing scalability and reliability
- Taught web development courses in a formal classroom setting
- Lead database designer for AIMPages.com, AOL Member Directory 2.0, and the tagging & commenting infrastructure used by multiple AOL properties
- Lead database designer for Benelogic, a web-based benefits enrollment system
- Led a team that created a web-based interface to an existing Data Warehouse
- Led a team that created a workflow system which improved productivity by 250%

Software Engineering

- Developed prototype ERP application using Amazon Web Services, Perl, and Hadoop
- Developed tools to generate XML sitemaps for millions of user-created web pages
- Developed ETL, administrative, and reporting tools in Perl, C, and Unix Shell
- Extended and maintained AOL's "master control" system for systems operations
- Wrote and tuned stored procedures for Sybase, MS-SQL, MySQL and Postgres
- Designed generic security and authentication module for web-based applications
- Developed client-server applications using C and DB-Lib/CT-Lib

Systems Operations

- Administered 50+ replicated Sybase, MS-SQL, Postgres, and MySQL servers supporting the AOL.com portal site as well as other AOL branded properties
- Architected database clusters based on analysis of projected and actual loads
- Administered 25+ multi-terabyte databases supporting ENTREZ and PubMed, the world's largest public repositories of genomic data and medical journal abstracts
- Sole administrator for a computer-based training site serving 200,000+ employees

Clients and Employers

GuestMetrics

Principal Systems Architect

Boston University - CDIA

Instructor

America Online

Sr. Systems Engineer, Sr. DBA

National Library of Medicine - NCBI

Sr. Sybase DBA

Benelogic

Sr. Database Architect

Verizon Communications

Sr. Software Engineer

Small Business Administration

Sr. Database Architect

Maryland Insurance Administration

Lead DBA

Los Alamos National Laboratory

Sr. Programmer / Analyst

United States Air Force

Programmer / Analyst, Software Tester

Proficiencies

General

- Cloud Computing (AWS/E2C)
- Scalability Engineering
- Capacity Planning
- Data & Application Modeling
- Database Administration

Languages

- Perl (Mason, DBI, mod_perl)
- SQL (all major dialects)
- Unix Shell (bash, csh, awk)
- [X]HTML, CSS, JavaScript
- XML and XSLT
- C
- PHP
- Java (dated)

Databases

- Hadoop / MapReduce
- Sybase ASE and ASA
- Sybase Replication Server
- Microsoft SQL Server
- MySQL
- Postgres
- Oracle (dated)

Education

University of New Mexico

Computer Engineering

8/1993 - 5/1995

C.C. of the Air Force

Computer Science

10/1989 - 2/1993

Other Skills

Photographer

Portfolio available on request