



MARK
SOLDA

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EXPERIENCED SOFTWARE ENGINEER

PROGRAMMING | DATABASE MANAGEMENT SYSTEMS | DISTRIBUTED ENVIRONMENTS
SYSTEM ADMINISTRATION | NETWORKING | MIGRATION | PROJECT MANAGEMENT | QUALITY ASSURANCE
TEAM MANAGEMENT | DATABASE REPLICATION | PERFORMANCE IMPROVEMENT | SCRIPTING | SQL
INFORMATION SECURITY | SAAS SOLUTIONS | SDLC | AGILE METHODOLOGIES | DATA STRUCTURES

Customer-focused, results-driven software engineer with 25+ years of experience leveraging data to achieve innovative solutions and drive business performance. Proven expertise in relational database management systems (RDBMS), building and managing mission-critical databases to improve operational efficiency. Successful track record of designing databases to automate manual tasks, reducing costs and eliminating time consuming tasks. Designs, implements, and maintains production database environments to attain rapid growth. Leverages knowledge of databases, technology and software development to successfully design and execute high quality IT projects.

Experience

Professional Development Activities

2016-2015

- Expanded programming skills through ongoing professional development. Completed courses in Java, Python 3, Command Line, Data Analysis with Pandas, Statistics with Python, Introduction to Statistics with NumPy, Practical Data Cleaning, and Web Scraping with Beautiful Soup

Imagine Software, Inc – New York, NY

May 1998 – September 2015

The leading provider of real-time portfolio, risk management and regulatory solutions for financial services firms worldwide

Database Team Manager (April 1999-September 2015); **Junior Systems Administrator** (May 1998-April 1999)

- Software:** Produced high-quality, reliable, scalable, financial software that was tested regularly and used to deliver world-class products. Focused on all phases of development, including databases and coding, applying and maintaining quality standards and developing and executing test plans and procedures.
- Team Management:** Oversaw database department for all financial software products, managing a five-member team of database administrators. Interviewed, hired, trained, directed work, managed performance, rewarded, motivated, and retained employees. Engaged database administrators to establish roadmaps and technology plans.
- Database Management:** Supervised entire "ground up" database management process for new and existing clients focusing on business objectives and serving clients in an effective, efficient and secure manner. Designed and managed 350 client databases comprised of more than 12 replication servers and over 30 database servers.
- Relational Database Management Services:** Developed data-driven applications and facilitated programming software using RDMS. Dealt with high volume data.
- Programming:** Coded, tested, debugged, and implemented programs to meet complex business needs. Ensured that the programs met standards and technical specifications.
- Scripting:** Wrote scripts to monitor replication and database servers, as well as to automate replication and database tasks, including generation of replication definitions and subscriptions.
- Project Management:** Managed projects from inception to completion for all new client database needs, including key milestones, project schedules, updates on the software status, and software solutions to execute business objectives.
- QA:** Applied QA methodologies, test automation and automation frameworks.
- Client Management:** Served as the main point of contact for client requests and performance tuning, providing counsel to clients and users worldwide. Drove customer experience, continually raising the bar on functionality, usability, and simplicity.
- SDLC:** Incorporated SDLC processes and supporting toolsets to ensure optimal performance.
- Disaster Recovery:** Managed a disaster recovery site to eliminate the need for human intervention, ensuring more efficient immediate responses. Focusing on IT security and business continuity. Provided cybersecurity plans to ensure that business-critical technology services are recovered in the event of a security event.

- **Trends & Best Practices:** Leveraged current, innovative, and emerging technologies and an in-depth understanding of IT trends to create business value and reduce overall costs. Stayed abreast of emerging developments in the field to enhance the delivery of services.
- **Server Management:** Managed multiple servers for 24x7 environment resulting in operational improvements and business growth.
- **SQL:** Taught classes in SQL programmer for non-SQL programmers.
- **Performance Improvements:** Continuously identified opportunities for performance tuning. Provided advice and counsel on technical or process problems, continuously sought out to find the solution and resolve/fix critical problems.
- **SaaS Solutions:** Successfully delivered SaaS solutions for customers.

Columbia University, Lamont-Doherty - Palisades, NY

January 1988 – January 1998

Lead Systems and Network Programmer/Manager of Administrative (January 1995-January 1998)

- **Systems Management:** Managed and automated systems, including maintenance and program enhancements.
- **Server Management:** Upgraded Sybase server from 4.9.2 to 11.0.3 and conducted quality assurance. Used secure socket layer modifications to upgrade Apache Web Server.
- **Database Management:** Migrated databases, stored procedures, triggers, front-end and reporting programs.
- **Distributed Systems:** Leveraged distributed System development using Java and C++.
- **Development:** Leverage agile methodologies to improve development processes.

Senior Systems and Network Programmer Analyst/Manager (January 1993-January 1995)

- **Systems Management:** Managed systems which were efficient, highly scalable, and configurable. Migrated from SunOS to Solaris and completed QA work. Configured/maintained sendmail, xntpd, and DNS/BIND systems for observatory.
- **Automation:** Developed effective purchasing office automation system centered around Sybase to hold comprehensive requisition information for all observatory purchases; worked closely with Purchasing Manager and staff.
- **Database Management:** Developed database to track hazardous materials location and use; collaborated with Administrative managers to set up web server and associated pages.
- **Security:** Advised committee on optimal security configuration and best use of page/content.
- **Programming:** Wrote online processing Web forms using CGI programs in Perl.

Programmer/System Administrator (January 1990-January 1993)

- **Programming:** Expanded, developed and programmed interactive computer system for universal Administration usage. Leveraged SQL, C and Perl for reporting. Developed and modified programs using C, Perl and shell scripting languages. Produced high quality code following rigorous design standards.
- **Server Administration:** Set up, configured, and maintained Sybase server; managed physical resources, multiple databases, users and security.
- **Systems Administration:** Upgraded computer systems from Sun3 to Sun4 architecture.
- **Database Management:** Created Accounting department database; wrote software to collect computer usage from observatory computers. Directed development workflow and spearheaded new development.
- **Team management:** Taught computer classes for Administrative personnel; maintained observatory USENET; teamed with observatory computer support staff to maintain network.

Research Staff Associate (January 1988 - January 1990)

- **Programming:** Programmed numerical model of upper ocean surface mixed layer. Wrote shell script and C programs for data processing.
- **Networking:** Maintained all hardware/networking.
- **Security:** Developed, implemented and enforced security measures.
- **Training:** Provided in-house consulting /training to separate 30-user network utilizing UNIX work-stations and terminals.
- **Client Management:** Served as the key liaison between Administration and central University for computing matters.
- **Network Administration:** Maintained the network working in conjunction with computer support staff.

Education

B.S: Computer Science/Mathematics, Clarkson University - Potsdam, NY