

Jim O'Quinn

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Professional Summary

Experience in corporate computing environments ranging from Fortune 100 to startups, specifically in the area of Internet technologies including UNIX, web servers, mail servers, DNS, and other infrastructure software. Designed and coded several large web-based applications and dozens of single task programs. Familiar with Intel-based server hardware ranging from rackmount servers to network attached storage devices. Worked as a community leader with local non-profit non-partisan political organization where I co-led a diverse team to develop business and community relationships, negotiate with Austin City Council, and rewrite the City of Austin's Economic Incentive Policy.

Core Qualifications

- 23 years UNIX (Linux/AIX/Solaris) system admin
- 9 years SQL database design & implementation
- 12 years Apache, MySQL, SMTP, & DNS server admin
- 3 years Cloud design, implementation and admin
- 12 years Perl, PHP and JavaScript application dev
- 2 years hardware design with chip and board layout
- 10 years high-volume email delivery systems
- 4 years community leadership experience

Experience

Financial Services Online, Austin, TX

July 1995 - July 2016

VP of Technology

UNIX System Administration

- Steered company from early-adoption of internet technologies based on a single Linux server with a flat file database, through Solaris X86, eventually progressing to modern cloud stack-based configuration built on a Linux/KVM hypervisor using Proxmox as the management console. Installed, configured, and administer guest operating systems based on RedHat (CentOS) UNIX and Ubuntu UNIX.

Software Development

- Designed and coded software platform designed to manage business operations including administrative tasks for subscriber management, one-time or automatic reoccurring credit card billing, on boarding new corporate clients, management reports, and one-time and auto-reoccurring billing. With over 65 database tables, it was built on Linux, Apache, MySQL, Perl with HTML, CSS, and JavaScript.
- Launched the first web-based content delivery engine designed specifically for insurance agents and financial advisors. Designed and coded a content engine that generates dynamic PDFs with data sourced from HTML input forms and MySQL; content runs on Windows platform and engine is coded in ASP.

Web Development Toolkit

- Co-developed object oriented web development toolkit in Perl that presented an object based view for Internet application development covering HTML forms, input field validation, one-to-one SQL table mapping, sanitized GET/POST data, and objects for SMTP, TCP/IP client and server, date, environment, logging, and sessions.

Additional System Administration

- Managed hardware platform that scaled opt-in email service to 223,000 addresses with 7+ million deliveries per month.
- Installed, configured, and managed DNS servers (named) and Amazon Route 53.
- Evaluated and stress tested several NAS solutions, one of which was used as the foundation of a 3-tier local and off-site backup system coded in Perl and bash.
- Installed, configured, and managed several MySQL and MS-SQL database servers.
- Responsible for specifying, purchasing, and maintaining all hardware including rackmount servers, storage equipment, managed switch, and firewalls.

VP of Technology

- Launched a large ad-supported opt-in email service that licensed content from Chicken Soup for the Soul, History Channel, Readers Digest and other high-value content partners.
- Scaled up from several thousand deliveries per month to +20 million deliveries per month with +8 billion opt-in emails delivered over the life of the business.
- Designed and coded a content assembly and scheduling system for email content that included link tracking and open tracker for emails. Was with Linux, Apache, MySQL and Perl.
- Managed all aspects of advertising sales. Worked with clients to create and approve ad copy, monitored ad performance, tracking, scheduling and placement.
- Installed and managed Windows 2003 server, Microsoft MS-SQL server, and Lyris ListManager SMTP engine.
- Wrangled deliverability issues such as domain and IP address reputation, whitelisting, SPAM traps, content screening and validation, SPF and DKIM.

*Personal Computing Laboratory***Cloud Computing Design and Implementation**

- Two Dell R210-ii servers with Xeon E3-1240 processors with 512G SSD, 32G ECC RAM running Proxmox hypervisors in a 2-node cluster with automated failover, live migration, backup automation, and NFS/iSCSI storage configuration.
- Evaluated numerous cloud stacks and hypervisors; AWS, Google Cloud Platform, Azure, IBM Bluemix, Xen Cloud Platform (XCP), libvirt KVM, OpenStack and Apache CloudStack. Deployed virtual servers and containers such as LXC and Docker. Familiar with cloud storage architecture and computing resource allocation.
- Hosted several virtual servers on the cluster with either Ubuntu or RedHat (CentOS) UNIX running ownCloud, Puppet, OpenProject, Zurmo CRM, and Windows Server 2012 r2.

Network Attached Storage (NAS) Implementation

- Primary storage system with iSCSI targets and NFS configuration to create a 17 terabyte OpenMediaVault NAS device backed by mdadm running RAID6 plus one standby drive. Physical storage consists of eight 4 terabyte Hitachi 7200 RPM SATA-III drives in rackmount chassis.
- Secondary storage system with iSCSI targets and NFS configuration to create a 16 terabyte NFS device backed by OpenBSD and ZFS. Single raidz2 storage pool with SSD ARC, L2ARC, and ZIL cache drives.
- Performance monitoring tools such as iostat, top, and iotop.

Infrastructure Monitoring, Web Application, and Network Hardware

- Installed and configured infrastructure monitoring tool Grafana, backed by InfluxDB time series database, and Telegraf collector. Monitors the cluster hypervisors, guest operating systems, and hardware components such as CPU, memory, storage devices, and networking.
- Applications include ownCloud server backed by encrypted data storage, WordPress with Multi-Site and Multi-Domain configured, and Plex Media Server.
- Consumer grade Asus router reloaded with Merlin firmware. Configured OpenVPN, internal and external DNS servers, plus dynamic DNS.

*UNIX System Administrator, and Software Developer***Start-Up Launched**

- Formed partnership with a technical peer focusing on application development with emerging Internet technologies.
- Built a small technical recruiting business concentrating on talent versed in Internet technologies.
- Co-managed all aspects of the business including incorporation, employment contracts, accounting, client negotiations, business development, hiring and firing. Primary clients included the Texas Education Agency (TEA) and LinkMedia Communications.

Large Scale Internet Application Development

- As one of the primary developers at the Texas Education Agency, developed the AskTED project, the first web-based application at the TEA and one of the first at any Texas State Agency. As the data repository for all schools, districts, and counties in Texas -- including like addresses, phone numbers, and additional contact information -- the system encompassed over 80 HTML data input screens, 20,000 static HTML reports batch generated each night and advanced report query screens all over HTTP. The system is still in use 18 years later.
- Supervised software development, testing and training for the AskTED system. Coordinated teams integrating legacy mainframe systems.

The Merlin Group, Austin TX

July 1995 - May 1996

Software Developer

- Developed software tools to support IBM's AIX call center. Performed a wide range of tasks in the AIX ecosystem to provide support for the call center's technicians.
- Focused on Korn shell scripting, X11/Motif application development in C, and general AIX UNIX system administration.
- Helped develop AIX system diagnosis utilities in Korn shell that were deployed in web server environment.
- Installed, configured, and evaluated a variety of HTTP daemons including; NCSA, CERN, Apache, and IBM. Modified and debugged the IBM HTTP daemon.

IPC Technologies, Austin, TX

September 1994 - July 1995

Programmer - Management Information Systems

- Installed and supported SYMIX V3.R5 ERP on AIX UNIX for a company of 300 employees.
- Consulted with all departments including purchasing, accounting, sales, and manufacturing to determine needs and requirements.
- Authored design specifications and documents for programmers and document control. Performed system administration on a IBM RS/6000 with over 200 user accounts, integrated Novell V4.01 printing and filesystems with AIX, and evaluated and deployed MS-Windows TCP/IP on over 200 PC systems.
- Administered Progress V6.3 SQL database, performed adhoc 4GL queries, and database repairs as needed.
- Consulted for IPC's internal and external World Wide Web development teams and maintained a SCO UNIX firewall.

Education and Patents

- Texas State Technical Institute
Associates of Applied Science in Computer Maintenance May 1986 - May 1988
- The University of Texas
Introduction to UNIX and Script Programming February 1991
- Austin Community College August 1992 - January 1994
- 57 hours towards a BS in Computer Engineering, classes include C, PASCAL, UNIX, and BASIC

Udemy - Bootstrap 3.0, Certified AIX Support Specialist, Certified AIX System Administrator, AIX Kernel Training Tier III, AIX System Disaster Recovery, AIX SNA Services, High Availability Cluster Multiprocessor Processing (HACMP/6000) Training, AIX 4.1 Migration

Co Author of US Patent: 5249277 - Optimized Performance Memory Method and System ---
<http://www.google.com/patents?id=JdYAAAAAEBAJ&dq=United+States+Patent+5249277>