

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. Familiar with Intel-based server hardware ranging from rackmount servers to network attached storage devices. Designed and coded several large web-based applications and dozens of single task programs. 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. Produced eleven short films and one feature film.

Core Qualifications

- 23 years - UNIX (Linux/AIX/Solaris) system administration.
- 9 years - Database administration, design, and implementation.
- 12 years - Apache/MySQL/Perl and PHP application development.
- 3 years - Private cloud design and implementation.
- 2 years - Experience in a hardware design lab, including chip and board layout.
- 10 years - Experience with high-volume email delivery systems.
- 4 years - Community leadership experience.

Experience

Financial Services Online, Austin, TX

July 1995 - July 2016

VP of Technology

- 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.
- 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.
- 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.
- 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 two MS-SQL database servers.
- Responsible for specifying, purchasing, and maintaining all hardware including rackmount servers, storage equipment, managed switch, and firewalls.

Co-Founder / 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.
- 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.
- Managed all aspects of advertising sales. Worked with clients to create and approve ad copy, monitored ad performance, tracking, scheduling and placement.
- 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.

Homelab, Austin, TX

June 2009 - July 2016

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; Xen Cloud Platform (XCP), libvirt KVM, OpenStack and Apache CloudStack. Familiar with 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.

Capital IDEA, Austin, TX

September 2013 - Present

Board Member & Finance Committee

- Review outcomes and financial metrics created for evaluation of non-profit workforce development program that trains working adults out of poverty and into higher-wage careers. Identify and question anomalies, and develop potential solutions. Established a six-month savings cushion as a solution to issues with accounts receivable schedules.
- Represent Capital IDEA to Austin City Council and Travis County Commissioners.
- Work with staff to develop “10X10” plan to scale up Capital IDEA within ten years.
- Helped develop Career Expressway that trained more students in less time, with innovative class scheduling, wrap-around counseling, and childcare supports.
- Monitored Texas state legislation that impacts Capital IDEA funding, including the JET / ACE Fund.
- Established a six-month savings cushion as a solution to accounts receivable scheduling issues.

Austin Interfaith, Austin, TX

June 2012 - January 2016

Volunteer Leader

Changed City of Austin Economic Incentive Policy

- Helped assemble and co-lead a diverse team that raised the minimum wage standard for corporations receiving City of Austin economic incentives from \$7 to \$11 /hr.
- Drafted new city ordinance in collaboration with lawyers, built alliances, reached out to opposition, and worked with Austin City Council and staff to compel passage of the ordinance with 6–1 vote. This set the foundation for future wage increases with Austin Independent School District, City of Austin, and Austin-Bergstrom Airport.

Overhauled Technical Infrastructure

- Assessed organizational needs and evaluated two CRM/ESP/CMS as possible solutions.
- Managed implementation of NationBuilder including migration of website, email, and voter database.
- Developed and implemented plan to integrate disparate systems onto one platform.
- Cut turf and created call and walk lists for 2014 election, increasing voter turnout 13-33% in targeted precincts.

Co-led organizational fundraising effort, exceeding goal by 100%

- Developed model for approaching and meeting prospective donors that included a meeting structure that helped established new relationships with key players.
- Established relationships with Samsung and JPMorgan Chase and deepened relationship with Bank of America and others, ultimately raising \$60 thousand in less than 4 months.

Jonestown Productions, LLC Austin, TX

September 2005 - July 2011

Founder - Film Producer/Writer/Director/Editor

- Produced 11 short films where duties covered directing, editing, and writing.
- Ran meetings, produced agendas, managed the budget, and worked with equipment vendors.
- Organized table reads, rehearsals, wardrobe, and location management.
- Interviewed and hired film crew for positions including cinematographer, grip, gaffer, and production assistants.
- Produced a feature film.

/dev/null Internet Consulting, Austin, TX

May 1996 - October 1998

Co-Founder, 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.

CSC/Ralph Krikley Austin, TX

July 1992 - September 1994

AIX UNIX Defect Support Analyst

- Provided AIX UNIX support services in real-time over the phone while on contract with IBM's Workstation Division.
- Delivered problem determination and software defect analysis on customer issues of the highest severity on a wide variety of AIX UNIX software components and applications including; kernel, filesystems, installation, configuration, and maintenance.
- Support for AIX's software development applications and tools including; C++, C, COBOL, FORTRAN, and PASCAL compilers, Workbench, CMVC, SCCS, and make.
- Authored technical guides used to aid with AIX system recovery and used to debug disk subsystems. These guides were used by dozens of defect support analysts and untold number of customers.
- Performed system administration duties on two RS/6000 servers and X-Stations.
- Implemented X11r5 toolkits (Xt/Xm/UIL) and a GUI builder to create a Motif application used for incoming/outgoing faxes. Wrote many Korn scripts to automate daily work routines.

PenCom Systems Austin, TX

March 1991 - July 1992

Engineering Technician

- Contracted to IBM's Advanced Workstation Division and assigned to a lab that provided hardware verification and stress testing on IBM RS/6000 UNIX workstations before released to manufacturing. Automated much of the stress testing by coding a small library of functions in C to control GPIB instruments, namely power supplies, function generators, logic analyzers, digital volt meters, and frequency counters. Stress testing tasks that required considerable man hours to complete were now automated and ran 24 hours a day.
- Implemented curses windowing libraries to build a menu driven interface for an instrument control program.
- Developed a hardware behavioral model, in C, for a bus arbiter chip for the RS/6000 64-bit RISC multiprocessor server. Modified and enhanced a language interpreter to support additional command and features. Assisted electrical engineers in testing and debugging the RS/6000 hardware complex.
- Developed a set of software tools, in Korn shell, to automate timing analysis of several MicroChannel controller integrated circuits. Wrote test cases, performed simulation and design verification on a gate array.

CompuAdd, Austin, TX

1989 - March 1991

Engineering Technician and Computer Repair Specialist

- Worked side by side with electrical engineers who designed IBM Personal Computer clones. Task to design and manufacture the fastest PC on the market we completed this task and launched the CompuAdd 333.
- Co-invented advanced memory controller architecture that was the anchor of this record setting design.
- Used Viewlogic EDA software to layout the engineer's design and generate schematic diagrams.
- Researched electrical component including resistors, capacitors, integrated circuits, RAM and video controllers. Components were qualified and added to the bill of materials.
- Worked with local manufactures to create prototype motherboards for debug and design validation.
- Provided technical details to the document department so they could author product manuals. The design was released to manufacturing, produced in volume, and was well received by consumers.
- Was a finalist in PC Magazine's 1990 Awards for Technical Excellence, patent 5,249,277 was awarded to the design team, and overall received good press.

Computer Repair Specialist

- Repaired defective PC motherboards. Ran diagnostics, problem determination, and isolated failed components.
- Extracted failed IC chips off the motherboard with soldering iron, replaced failed IC, and then ran burn in tests.

Education and Patents

Texas State Technical Institute	May 1986 - May 1988
<ul style="list-style-type: none">• Associates of Applied Science in Computer Maintenance	
The University of Texas	February 1991
<ul style="list-style-type: none">• Introduction to UNIX and Script Programming	
Austin Community College	August 1992 - January 1994
<ul style="list-style-type: none">• 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>