

JERRY LAWSON

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SENIOR SOFTWARE ARCHITECT/LEADER

Architecture / Design / Product Development / Leadership

A highly motivated software engineering professional, able to produce high-quality subsystems and products, providing an employer immediate and long-term benefits. Has a long track record of exceeding expectations of internal and external customers and management, in fast-paced, bleeding-edge product development environments. Strong leadership, mentoring and team-building skills. Adept at driving product strategy and delivery of large-scale distributed software systems in a multi-stream environment. Not afraid of being a hands-on leader, as well as proven ability to develop software with the best of the best. Several years of AWS-related development and DevOps.

Not bounded by any particular industry or segment; can easily adapt to different tools, languages, platforms, technologies and products. Desires daily challenges as well as demanding technical and leadership responsibilities. Innovation, a focus on delivering solutions, and collaborating with great talent on meaningful products are career hallmarks.

- System Architecture & Design
- Innovation
- Technical & People Leadership
- Complete Software Lifecycle
- Problem Solving
- Source/Version Control
- Rapid Development
- Strategic Agility & Vision
- Recruiting & Retention of Technical Talent
- Team Building
- Mentoring & Teaching
- Process Development & Continuous Improvement
- Variety of Programming Environments & Languages
- Embedded, Real-time and Enterprise-level systems

Keywords: java, groovy, javascript, Typescript, python, React, Redux, full-stack, Agile, OpenSource, AWS, Jenkins, Kafka, Elastic Search, Hadoop, RabbitMQ, ActiveMQ, MySQL, Postgresql, MongoDB, Database Design, SOA, REST, Redis, C, C++, Objective C, Fortran, bash, c-shell, gradle, maven, make, gmake, gnu tools, git, svn, cvs, Dropwizard, Jersey, Jetty, Spring Framework, XML, Visual Studio, MFC, SQL, UNIX, Linux, MacOS, Solaris, Windows, VxWorks, embedded, Enterprise, Networking, TCP, UDP, STL, boost, Atlassian tools.

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER, 2018 - Present

Netflix – Los Gatos, California

Member of UI Engineering Tooling and Operations Team. Responsible for developing custom-built tools, test automation frameworks and dashboards to help with developer and QA productivity and production-level CI/CD pipelines. UI developers rely on custom tooling to obfuscate the low-level yarn/npm/gulp build steps and automation frameworks, so that they can focus on developing business logic. The Tooling and Ops Team develops in-house custom tooling and operations workflows (test and delivery) to enable a large number of developers to rapidly innovate the Netflix TV and Web experience for 140+ million users multiple times each week.

- ✓ Developing full-stack solutions for automation, including correlating, analyzing and visualizing test automation results and details (java/springboot/javascript/react/redux)
- ✓ Developing custom automation test framework and tooling for developers and test engineers to write integration tests
- ✓ Creating and maintaining Jenkins and Netflix-specific CI/CD jobs and workflows

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Professional Experience Continued

- ✓ Developing backend meta data storage system for test automation results and analysis (Typescript/node.js)
- ✓ Architecting automation solutions for heavily used CI/CD pipelines, spanning several service layers/tiers and internal Netflix APIs
- ✓ Integrating custom software with Jenkins, BitBucket/Stash, Slack and other 3rd party solutions
- ✓ Participating in Tooling and Ops, as well as UI product, design and peer code reviews

SENIOR STAFF ENGINEER, 2015 - 2018

Bazaarvoice – Austin, Texas

Technical lead of API Infrastructure team, responsible for architecture and delivery of infrastructure systems for supporting multiple client-facing APIs. Team is one of dozens in a highly autonomous, yet cohesive, engineering organization providing micro-services to external clients as well as within the organization. Each team is 100% responsible for its own services, including feature pipeline, CI/CD, DevOps, QA, 24x7 support, new development and sustaining/bug fixes.

- ✓ Integrating with 3rd party systems to provide cohesive API infrastructure.
- ✓ Next gen API management system.
- ✓ Key contributor for architecture, design, and implementation.
- ✓ Experienced in multiple AWS services/APIs and DevOps.
- ✓ Advocate for test-driven development, automation, and reuse
- ✓ Coordinator and host of weekly R&D Tech Talks
- ✓ Annual internal Hackathon coordination

DIRECTOR, CTO INNOVATION, 2012 - 2015

Tektronix Communications/Danaher – Plano, Texas

Led CTO Innovation team, reporting to TekComms Chief Technical Officer. Innovation team was responsible for producing proof-of-concept systems ahead of mainstream engineering teams, focusing on Big Data, virtualization, and automation.

- ✓ Researching new technologies for elastically scalable distributed applications.
- ✓ Driving delivery of new architecture and SDKs.
- ✓ Recruiting and retaining highly technical dream team of architects and principal engineers.
- ✓ Managing multiple proof-of-concept project streams.
- ✓ Contributing hands-on with architecture, design, and implementation.
- ✓ Cost-center and budget responsibility for CTO office.

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Professional Experience Continued

SENIOR SOFTWARE ENGINEER, Enfora/Novatel - Richardson, Texas, 2011 - 2012

Developed M2M applications for processing, storage and display of mobile-generated events and provisioning of mobile terminal endpoints. Recognized as the only engineer on-staff capable of moving between java (server/UI) development and C (mobile endpoint) environments.

- ✓ Performance and optimization of M2M server software; 20x performance boost.
- ✓ Developed simulator software used by server/UI development team and System Test team.
- ✓ Designed database storage architecture.
- ✓ Developed embedded mobile endpoint software, assisting in upgrading legacy system to new hardware platform.

SENIOR SOFTWARE ARCHITECT/DIRECTOR, HEB Technologies – Allen, Texas, 2007 - 2011

Performed technical leadership of small Java Enterprise development team. Responsible for execution of Windows and MacOS application and RESTful enterprise services framework for real-time third-party health-related notifications.

- ✓ Reverse engineered legacy moth-balled source code.
- ✓ Updated technology of legacy product in multiple platforms and software languages.
- ✓ Dual role as System Architect and technical leadership of development team.
- ✓ Migrated MFC C++ code to MacOS Objective-C.

SYSTEM ARCHITECT, CommProve IT – Allen, Texas, 2006 – 2007

Developed platform/OS architecture and frameworks for SunOS/Linux/Windows XP applications.

- ✓ Developed generic build system for cross-platform build environments.
- ✓ Developed platform-independent c++ abstraction of networking layers for TCP/IP, UDP/IP and UDP Multicast.
- ✓ Developed platform-independent c++ abstraction of various OS interfaces, including semaphores, mutexes, atomic counters, locks, events, timers, I/O control, etc.

SR. SOFTWARE MANAGER, INET/Tektronix – Richardson, Texas, 1993 – 2006

Requirements analysis, design, system architecture, software implementation/test/delivery/maintenance of real-time embedded applications and system services.

- ✓ Managed and lead 20+ architects and developers in cross-functional product team.
- ✓ Key contributor to ISO 9001 process development for department.
- ✓ Developed configuration management, version control, and defect management processes and procedures.
- ✓ Brought multiple embedded multi-core, multi-host application/processing boards to market.
- ✓ Architected real-time database, multi-threaded services, communication protocols and SDKs for large-scale embedded systems.

SR. SOFTWARE ENGINEER, Andrew SciComm – Garland, Texas, 1991 – 1993

SOFTWARE DEVELOPER, Electrospace Systems – Richardson, Texas, 1984 – 1991

- ✓ Developed low-level X11-based graphics library for SIGINT analysis system.
- ✓ Key role in developing and customizing a 3-stage VxWorks boot prom for 68040 SBC.
- ✓ Redesigned and implemented host control software for legacy secure telecom switch.
- ✓ Developed rapid prototype of compact Operator Console to replace legacy Console.

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Professional Experience Continued

TECHNICAL SKILLS SET

Skill	Skill Level	Last Used	Years Used
java	Expert	Currently	15+ years
javascript/Typescript	Intermediate	Currently	2 years
node.js	Intermediate	Currently	2 years
React/Redux	Intermediate	Currently	1 year
bash, c-shell	Expert	Currently	15+ years
TCP/IP & UDP/IP	Expert	Currently	15+ years
AWS	Expert	Currently	4+ years
git	Expert	Currently	5+ years
c++	Expert	4 years ago	20+ years
c	Expert	4 years ago	20+ years
STL & boost	Expert	4 years ago	4 years
svn/cvs	Intermediate	2 years ago	17 years
Linux	Expert	Currently	15+ years
Solaris	Expert	4 years ago	15 years
Windows	Intermediate	4 years ago	3 years
RTOS (proprietary)	Expert	4 years ago	10 years
VxWorks	Intermediate	+10 years ago	7 years
FORTAN	Intermediate	+10 years ago	7 years
SQL	Intermediate	Currently	6 years
RPM packaging	Expert	Currently	5 years
XML	Intermediate	Currently	6 years

EDUCATION

Bachelor of Science Degree, Electrical Engineering · The University of Texas at Austin