Scott Long

2945 Lake Park Way Longmont, CO 80503
Tel: 303-775-3807 – Email: scottl@samsco.org

Objective

Seeking a technical leadership position in software systems architecture and engineering.

Skills and Qualifications

- Established leadership record in designing, implementing, debugging, and delivering system software infrastructure, data and control planes, and hardware/software interfaces. Focused on architecting innovative and effective solutions for demanding performance, scalability, and reliability objectives.
- Detailed experience in SAS, SATA, and NVMe storage protocols, hardware/software integration, and filesystem design and performance. Detailed experience with PC server and desktop architecture, performance, reliability, and cost design considerations. Experienced with TCP/IP, TLS, ethernet protocols, and content delivery networks.
- Tools-oriented approach to software engineering. Experienced with Git, Mercurial, and Subversion source control systems. Experienced with Dtrace and HWPMC analysis tools.
- Open source contributor and collaborator for 20+ years, focusing on FreeBSD and Linux.
- Emerging experience with cloud computing technologies and micro–services via Go, Nomad, Terraform, QEMU/KVM, Bhyve, and CloudInit.
- Honorably discharged US veteran and licensed commercial single and multi-engine fixed wing pilot.

Employment

June 2019 – present   Intel, Inc.
Senior Software Engineer

- Team lead for FreeBSD enablement and security mitigation across Intel products.
- Responsible for team roadmap planning and business unit integration.

Sept 2018 – Apr 2019   Joyent, Inc.
Senior Staff Engineer and Manager, New Compute Platform

- Team manager responsible for integration, testing, and internal-release of a new private cloud compute virtualization platform.
- Assisted and facilitated engineering planning and development and activities between teams and internal customers.
- Responsible for defining and procuring the hardware development platform for the software development team.

May 2012 – July 2018   Netflix, Inc.
Senior Software Engineer, Content Delivery

- Developed the operating system for the video streaming OpenConnect Appliance. Responsible for for analyzing bottlenecks and architecting solutions in the areas of disk, network, and virtual memory performance and scalability.
- Architected the high-performance data plane for the OpenConnect Appliance. Led a multi-year, multi-faceted software development team effort that improved performance by 20x. Drove innovation in highly efficient and cost-effective techniques for transport level security in video delivery.
- Responsible for forging technical relationships with hardware component vendors.

- Community advocate and liaison for the OpenConnect Appliance and its open-source software components.

Jan 2007– May 2012   Yahoo! Inc.
Senior Software Engineer, Kernel Platform Team
- Team lead and operating system generalist. Responsible for analyzing and solving scalability and reliability problems posed by the high traffic and demanding workloads common in the Yahoo computing environment.
- Optimized the performance of numerous kernel drivers for LSI, Intel, Broadcom, and HP network and storage controllers. Re-architected the SCSI/SAS subsystem to allow for SMP scalability, increased performance, and better integration with emerging SAS and SATA technologies.

Jan 2006–Dec 2006   Copan Systems, Inc.
Senior Software Engineer
- Participated in the development of a highly scalable file archiving appliance based on the Copan MAID technology. Co-developed a custom archiving filesystem for the FreeBSD operating system. Responsible for troubleshooting NFS, filesystem, and overall system-level problems.
- Developed an automated build system and custom runtime platform based on SuSE Linux.

Jan 2005–Jan 2006   McAfee Research/SPARTA Corp.
Principle Engineer, ISSO Division
- Project manager and technical lead for the Darwin Security Extension (SEDarwin) project. Led a three member team in developing security extensions and policies for the Apple OS X operating system, under US Government contract. Responsible for contract continuation and direct interfacing with the customer.

1999–2004   Adaptec, Inc.
Software Engineer, Open Source Group
- Developed an enhanced modular software RAID stack for Linux. Features included multiple metadata formats, automatic configuration and failover, and rebuild/verify checkpoints.
- Co-authored and maintained hardware RAID and SCSI Ultra160 and Ultra320 drivers for Linux and FreeBSD.
- Developed an automated build and packaging system for Linux drivers.
- Responsible for interfacing directly with customers and the Linux community to solve Linux SCSI problems.

Software Engineer, Management Software Group
- Software engineer for a Java-based multi-platform storage management package. Designed and implemented plug-ins for SCSI and RAID subsystems using Java and C++. Led porting and development effort on FreeBSD, Solaris, and Linux.
- Developed and managed an automated build and packaging system for all software components on all target platforms.

1993–1999   US Navy
Electronics Technician, USS Shiloh

Education
2008–2011   *Metropolitan State College of Denver*
    Bachelor of Science, Aviation Technology
    Minor, Electrical Engineering