

SCOTT HENRY

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LINUX / UNIX SOFTWARE ENGINEER

Technical Lead / Individual Contributor, Core OS, 15+ years experience:

--- Network Programming --- Systems Programming ---

--- Security Mindset --- Scripting & Automation ---

TECHNICAL SKILLS

LANGUAGES: C, C++, shell, Perl, HTML, inst, rpm, SQL. Some apt/deb, Python, Java, javascript, scheme, elisp, GL, OpenGL, etc.

OPERATING SYSTEMS: Linux, IRIX, Svr3 Unixes, some Windows and Macintosh, others.

TECHNOLOGIES USED: OOA/OOD, Cryptography, Linux kernel, network protocols (TCP/IP, STP, HTTP), scripting (Perl, shell, CGI-bin), SCM tools (RCS, CVS, ptools, Perforce, git), debuggers (gdb, perl -d), etc.

LEADERSHIP: Tech lead, OS integration and delivery, Internal Consultant.

COMMUNITY INVOLVEMENT: Community interface for the Open-Sourcing of the FailSafe high-availability software system.

STRENGTHS: Security mindset, quick learner, broad experience to see the big picture.

HOBBIES: Run my own Linux network, with MTA, web, samba, print, IMAP, NFS servers, etc mostly as virtual servers. Learning Python, XHTML, MySQL, and Linux kernel programming.

RECENT EXPERIENCE

NETWORK APPLIANCE, SUNNYVALE, CA (2004-present)

Enhanced QA Automation process. Wrote Perl scripts to automate testing new product functionality, focussed on most difficult/critical product area (SnapLock). Mentored co-workers, especially in Perl programming. Wrote Test Design Specs. Monitored development planning/execution. Tested fixes. "Go-to" person for technology questions. Support test automation team.

NETWORK APPLIANCE, SUNNYVALE, CA (2004) [Contracting]

Enhanced QA Automation process, wrote Perl scripts to automate testing new product functionality.

FREELANCE CONSULTING, CAMPBELL, CA (2003 - 2004)

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Created and maintained a data collection web site. Wrote data reduction, analysis and formatting programs in Python. (Volunteer Position)

SILICON GRAPHICS INC, MOUNTAIN VIEW, CA (1988 - 2003)

- *MTS, Engineering R&D organization (1997 - 2003).*
 - **Architected and implemented the middleware layer of a next-generation server console and management station, which implemented the application's security and access policies, and core functionality. It connected the Java-based GUI to the VACM-based back-end code. Received a cash bonus for my work.**
 - **Architecture and design team member for a Cluster Distributed Shared Memory R&D project, using Linux as the implementation platform, targeted at IRIX, Linux, etc. Developed the kernel interface portion, implemented as a user-mode filesystem.**
 - **Primary contributor to RoboInst product, a tool to enable large-scale automated installation and updates of IRIX systems. Re-wrote the networking portion, much of the documentation and all of the examples.**
 - **Technical lead in developing, integrating, and delivering IRIX 6.5.17 quarterly OS release. Worked as part of product team, communicating with other IRIX engineers and doing code reviews of all parts of IRIX deliverables (kernel, networking, graphics, etc) in all languages used (C, C++, shell, Perl, Java). Triaged build problems, etc.**
 - **Ported IRIX FailSafe, a large (~1500 files, 500 kLOC) cluster infrastructure product (mostly C and shell), from MIPS/IRIX (big-endian) to Linux/IA64 (little-endian) and reworked the TCP/IP protocol code to be network interoperable. This product has multiple daemons per host, with intra- and inter-host (TCP/IP Socket) communication; shared with SGI's CXFS Cluster Filesystem.**
 - **Technical lead and community liaison for the porting and open-sourcing of Linux FailSafe (basic high-availability portion only of IRIS FailSafe).**
 - **Member of team defining "server appliance" product, implemented Backup and Restore GUI Web interface.**
 - **Long-term support of Perl as a part of IRIX, during which I found, analyzed and characterized several compiler bugs.**
- *I/S Engineer, Corporate I/S organization (1988 - 1997).*
 - **Designed and implemented internal PKI (Public Key cryptography) security infrastructure, planned to include smart-cards, Certificate Authority, etc. Integral part of architecture, design, and implementation phases, coding in C (including a Perl5 API), and intended to run on IRIX, MacOS and Microsoft Windows; all development was done on IRIX. Also ran the source tree and build process, mostly coded in Perl. Management abandoned project during implementation phase.**
 - **Started SGI's internal corporate web as a better way to distribute**

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information and documentation to employees. Initial rollout was before Jim Clark left SGI to found Netscape. Included porting and packaging the NCSA web server and the Mosaic web browser for internal use.

- Engineered and deployed several generations of dialup and remote access systems. Evaluated hardware, wrote administration software and documentation.
- Database and reporting expert (Unify database) for a financial database consistency repair project. Received additional stock options as bonus.
- Debugged and completed the combined printed/online (web) corporate internal phone book process (written in Perl).
- Performed security audits of critical corporate databases and procedures.

GLEN IVY PROPERTIES, CORONA, CA (1988) [Contracting]

Designed and implemented user interface to database for timeshare reservation and billing system.

US TELECENTERS, SANTA CLARA, CA (1987 - 1988) (defunct)

Designed and implemented user interface to database for sales and customer support. Unify database and UI builder, and C on Unix variant. (A get-out-of-military-contracting job)

TRW, REDONDO BEACH, CA. (1981-1987)

Technical lead/system architect for simulation software deliveries for USAF/SAC. Developed in FORTRAN on VMS targeted for VM/CMS. Evaluated changing to then-new language Ada. Customer presentations. All deliveries on time and within spec. Classified environment, had a security clearance.

APPLIED MAGNETICS, GOLETA, CA (1979-1981)

Junior design engineer for magnetic disk head manufacturer.

EDUCATION

B.S. Physics, Harvey Mudd College, Claremont, CA. Majored in Physics, with emphasis on Astrophysics and computational physics.

**1.5 years in PhD physics program at University of California, Santa Barbara
Work-sponsored classes in OOD, SQL, C++, Java.**

References available on request.