

# STEVE GASE

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Full resume and recommendations available here: [www.linkedin.com/in/stevegase](http://www.linkedin.com/in/stevegase)

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## OBJECTIVE:

Secure a challenging software development leadership position in fast-paced, innovative company.

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## SKILLS:

**Leadership/Teamwork:** Proven leadership and architectural skills within small, large, international and extended functional teams. Demonstrated track record of leading geographically dispersed teams to successful, quality-based, on-time product deliveries. Significant experience in engineering hiring as well as mentoring junior engineers. Extremely adaptable: able to quickly learn new product spaces, tools, and skills. Proven ability to work successfully on highly unstructured, fast-paced project schedules. Proven ability to seek out and transfer best practices within organizations. Led cross-functional teams in process definition activities. Technical Liaison to multiple partner companies.

**Innovation:** Highly creative problem solver with strong work ethic. Strong software architecture skills and proven ability in developing innovative solutions that win awards, and out-deliver competitors in features and robustness. Strengths in leading organizational change that lowers costs, improves time-to-market, and leads in product quality.

**Communication:** Excellent oral and written communication skills. Substantial presentation experience with vendors, customers, upper management, and internal partners. Trade show floor representative. Customer and internal training experience both live and video taped. PowerPoint, NetMeeting, LiveMeeting skills.

**Technical Strengths:** Specialization in systems management, network and systems-level software development. Skilled in kernel, device driver, embedded systems and real-time systems development. Extensive background in Release Management processes and technologies, SCM systems, and build/promotion solutions. Experienced in hardware bring-up and various platforms.

**Languages and Operating Systems:** Deep software development experience in software/hardware virtualization, Windows and Linux application and services development using C/C++ and Java. Strong in Perl, bash, awk and other scripting languages. Designed core networking services and shared libraries. Strengths in secure programming, multi-threaded solutions, deadlock avoidance, clustering, failover support, distributed client/server solutions and peer-to-peer systems.

**Development Methodologies:** Skilled in Object-Oriented (OO) analysis, design and programming principles, including experience with UML. Experienced with structured analysis and design, Design Patterns, Extreme Programming and Agile/Scrum. In-depth experience with the end-to-end software development lifecycle, from investigation and product definition, through product obsolescence.

**Technologies:** VMware. Network protocols: Sockets, WinSock, TCP/IP, UDP, IPC, XML, HTML, JavaScript, HTTP, SNMP, FTP, LDAP, SLP, IPX/SPX, SMTP, POP3, S/MIME, multicast, DNS, DHCP, BOOTP and Linux kernel-mode drivers. Install Technologies: RPM, InstallShield, MSI. Build Technologies: ClearMake, GNU Make, Ant. SCM Tools: Clearcase, CVS, StarTeam, Subversion. Participated in Salutation, NDPS, JetSend and Jini design. Other technologies: Web Services, Windows services, Linux services, PDF, digital certificates, public-key encryption, SNMPv3, DLL, RPC, SSL, Corba, COM/DCOM, and RMI, Infiniband. Representative to: DMTF, IEEE.

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## EMPLOYMENT HISTORY:

### Dell, Inc.

Austin, TX

*Sept 2003 – present – Sr. Software Engineer/Architect (Project Lead)*

Lead designer for the Release Engineering team at Dell's Product Group consisting of 14 team members from different disciplines and sites and supporting Dell's 850+ Product Group developers, spanning development sites around the world.

Saved Dell \$1.5M/year by developing and deploying a scalable and reusable build solution. Solution required gathering and consolidating "tribal knowledge" from dozens of independent teams and crafting a solution based on Dell and industry best practices. Led design and development of solution that employed virtualization technologies to integrate 100+ projects into an end-to-end build solution using shared hardware and tools. Integrated source code analysis tools, digital signing, obfuscation, virus scanning, notification, activity reporting, automated regression testing, and change control. Grew team to effective cross-site support team for 24x7 development in U.S., India, and China.

Also, migrated Dell-proprietary Java-based installation tools for the OpenManage product to native installer technologies using Linux Redhat Package Manager (RPM) and Microsoft Installer (MSI). Team became the installer experts for the organization and earned an additional yellow belt for savings in development efforts and reaching quality goal. Led successful off-shoring of this project to India.

### TippingPoint Technologies

Austin, TX

*Apr 2002 – Sept 2003 – Sr. Software Engineer/Architect (Project Lead)*

Lead designer of a team of 12 engineers and graphic designers in a startup environment producing a systems management and deployment appliance that centrally controlled multiple high-speed Intrusion Prevention Solution (IPS) devices. Successfully led

development for a secure hardened appliance using secure protocols, digital certificates, remote CLI (command-line interface), web management, and optimized client. Successfully led team through initial on-time release and 2 follow-on releases in an 8-month period. Owned relationships with hardware vendor, product support, training, and manufacturing. Met all aggressive schedule commitments. Designed and implemented functionality in key areas of: remote software update and configuration migration, the build process, installation and manufacturing processes, software feature licensing, and high-performance data capture. Developed Linux RPMs. Kickstart installation process.

### **Surgient Networks, Inc.**

**Austin, TX**

*July 2000 – Jan 2002 – Sr. Software Engineer/Architect (Project Lead)*

Lead engineer for the systems management portion of a content delivery platform designed to deliver 1-2 Gbps throughput for a variety of I/O-intensive applications including streaming media, HTTP web serving, caching, middleware and storage virtualization.

Led a team of nine engineers developing a distributed management solution for a completely new hardware platform. Mentored junior engineers and test organization in fast-paced start-up environment. Assisted other teams in areas of: file-system development, Linux tuning, performance optimization, kernel-level debugging, hardware bring-up and integration, memory and process management. Worked on an IPC service that exchanged packets over Infiniband, LAN, I2C, and the local processor.

Designed and implemented functionality in key areas of: remote software update and configuration migration, software feature licensing, content provisioning, host processor management, automated discovery, and high-performance logging facility. Developed Linux kernel-mode driver to support high-performance, high-availability logging facility, supporting billing features.

### **Hewlett-Packard, Network Peripheral Solutions Division**

**Boise, ID**

*Feb 1998 – June 2000 - Software Engineer/Scientist (Architect)*

Developed architecture for Internet-based printing solution permitting secure, easy-to-use, firewall-traversing, standards-based, carefree printing to any printer. Developed Jini-based printing solution using Java and embedded technology.

Investigated technologies in Java, Embedded JVM, Jini, Universal Plug and Play, brokered systems, encryption and digital certificates. Worked closely with internal partner organizations, partner companies, and industry leaders. Technical liaison with Microsoft on UPNP (Universal Plug and Play). Technical liaison with Sun on the definition of the Jini Printer Interface. Contributor to industry standardization efforts: IPP (Internet Printing Protocol) and the Standard Printer MIB, and open source printing initiatives.

Featured in training videos to educate support organization on new technology. Speaker at field training events. Mentor to well over a dozen new engineers over many years. Senior member of hiring teams. Led technical "brown bag" informational meetings designed to share new concepts with the larger engineering organization.

### **Hewlett-Packard, Internet Network Solutions Division**

**Boise, ID**

*Jun 1994 - Jan 1998 - Senior Software Engineer (Project Lead)*

Architect for HP Web JetAdmin, the industry-leading, multi-lingual network printer management tool using a standard browser. Created original product concept and led development teams of 3-16 engineers with releases every 6 months. Product received best in class awards in numerous industry product reviews. WJA was cross-platform code using OO and Visual C++, targeted to WinNT, Linux, HP-UX, Solaris and OS/2. WJA was distributed, multi-platform, highly-available management platform adopted by all HP network peripherals. Included a proprietary multi-threaded web server (HTTP) for performance and consistency. Championed best practices to focus on quality goals. Expert in network device discovery for the enterprise. Participated in feature analysis, customer research, competitive analysis and product definition activities. Technical liaison to Microsoft. Contributor to industry standardization efforts: SNMP Standard Printer MIB.

### **Hewlett-Packard, Network Printer Division**

**Boise, ID**

*Jan 1990 – Jun 1994 - Software Engineer (Project Lead)*

Worked on first network printer for the LaserJet printer division. Developed embedded firmware implementation of the NetWare protocol stack and print server applications for the HP JetDirect print server.

Architected and implemented industry's first network printer management tool: HP JetAdmin. Tool integrated proprietary printer configuration and management tasks with NetWare file server management to change a complicated user installation process from 40 minutes to 5 minutes. Offered one-stop management and diagnostics for NetWare printing. Product received best in class awards in numerous reviews.

Developed cross-platform SNMP management library still used in all of HP's peripheral management products. Technical liaison to Novell. Contributor to specification of Novell's NDPS (NetWare Distributed Print Services).

### **Hewlett-Packard, Colorado Network Division**

**Fort Collins, CO**

*July 1988 – Dec 1989 - Software Engineer*

Test lead for LAN Manager for Unix product, a Unix-based LAN Manager server, using Microsoft SMB, NetBIOS, and TCP/IP. Supervised contract test personnel. Led investigation for second release of product.

## **PATENTS AND INNOVATIONS:**

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Strong record of inventiveness and creativity:

- Responsible for several innovations at Dell allowing automation of software development and release management that saved millions of dollars in lower operational expenses and improved reliability and software development time.
- At TippingPoint and Surgient developed a general-purpose management solution using a secure, hardened appliance that could support large deployments of dumb devices.

- HP innovations include creation of industry-first, simple-to-use, one-stop printer management tool (HP JetAdmin); automated client driver installation and updates (JetPrint); and centralized management solution based over the web (Web JetAdmin). Technologies developed at HP, Dell and TippingPoint are still in use today and have received internal and external awards for design.
- Over 10 software patents granted or pending in service discovery, device configuration and management, driver installation, network printing, and e-commerce. One of select group of HP senior software developers chosen to participate in company-wide patent generation events.

## EDUCATION:

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BSCS from Bowling Green State University.

MSCS work at University of California Chico State, University of Colorado, Stanford and University of Akron.