

Jeff Gehlbach

357 Cherokee St
Marietta, GA 30060

www.jeffgehlbach.com
678.770.6500

Summary

Flexible professional with diverse skills including client and server software development and extending to design, administration, and management of systems, applications, networks, and firewalls

Objective

To secure a regular or contract position in software development, systems engineering, network engineering, firewall / security engineering, or a related field

Employment History

Independent Work · *EDS (Short-Term Consulting, December 2005)*

Provided advice to redesign performance monitoring capabilities of a leveraged solution for management of customer networks, routers, firewalls, and IP telephony. EDS' original design specified InfoVista for performance management and Netcool for fault management. Redesigned solution retains Netcool for fault but uses CA (Concord) eHealth for performance monitoring. Assisted project staff with installation and troubleshooting of eHealth integration module for Netcool Webtop.

Security Specialist · *BellSouth (Contractor, September 2005 – Present)*

Provide software engineering, systems management, and operational support to Enterprise Firewall Operations group. Customize and maintain software applications in support of firewall operations while also acting as a firewall engineer. Implement, customize, and maintain an installation of OpenNMS to replace separate installations of Cacti, MRTG, and Nagios previously in use by the broader Enterprise Information Security organization. Chief focus is on SNMP-based fault and performance management of a large deployment of Check Point FireWall-1 / VPN-1 across Solaris, Nokia (IPSO), and CrossBeam (XOS) platforms. Act as a full member of firewall operations team, evaluating and implementing firewall change requests according to corporate security standards. Support development of a custom web application through which internal customers and partners submit and track firewall change requests. Mentor less experienced developers in C programming. Assist permanent staff as needed with task scripting, system administration, and other duties. Participate in a 24-hour on-call rotation. Technologies utilized include Tomcat, Apache, PostgreSQL, MySQL, Perl, Java, JSP, PHP, AJAX, C, and Check Point's Open Platform for Security (OPSEC) API. Prepared for and successfully completed Check Point CCSA certification exam outside working hours.

Software Engineer · *Concord Communications (December 2001 – September 2005)*

Designed, developed, and maintained commercial applications in Java, Perl, C, and C++ for systems and applications management. Projects included: eHealth SystemEDGE, a lightweight but full-featured and extensible SNMP agent for UNIX, Linux, and Windows systems; eHealth AdvantEDGE View, a web-based application for remotely managing and installing SystemEDGE and its plugins; and eHealth Service Availability, a SystemEDGE plugin enabling synthetic testing of remote services and applications. Ported JNI shared memory and network testing library to AIX 5L, Red Hat Enterprise Linux on Itanium, and HP-UX on Itanium. Developed deep familiarity with

internals of eHealth suite components including Networks (historical Network Health), Systems, and Applications (historical Empire). Collaborated with peers and product managers to identify and understand customer requirements. Coordinated with software quality assurance engineers to ensure test coverage, with beta group to verify fulfillment of customer requirements, and with support engineers to evaluate and fix defects in both pre- and post-sales customer environments. Acted as local technical lead in conversion of source code control from CVS to IBM / Rational ClearCase Multisite, coordinating with corporate configuration management staff from proof of concept through finished implementation. Employer acquired by Computer Associates, June 2005.

Senior Professional Services Engineer · *Concord Communications (November 2000 – December 2001)*

Provided post-sales consulting services to tailor the Concord eHealth suite for maximum value in each customer's environment. Developed and implemented customizations to fit the culture and process needs of each installation, including migration from and interoperability with third-party NMS, OSS, and provisioning products. Worked at customer sites nationwide for durations ranging from two days to six months, often acting as sole or lead on-site representative of Concord. Worked with customers and Concord engagement managers to report progress and manage scope of each project. Developed a single-sign-on web solution allowing transparent user logins to Apache HTTP servers across a customer's network. Co-developed a customization allowing configuration of eHealth as a distributed application, enabling account teams to deliver two large sales to service providers. Cultivated familiarity with competing and complementary products including Micromuse Netcool/OMNIbus, HP OpenView Network Node Manager, and InfoVista. Spent bench time developing skills and researching new customization offerings. Customers included Accor Hotels, Ameritech, Equant, Florida State Legislature, Nextel, Qwest, SBC Wireless, Tampa Electric, and Worldcom.

Systems Engineer · *NASA / Getronics Government Solutions (March 2000 – November 2000)*

Worked with a small team to maximize the availability and security of UNIX and Linux systems and applications for NASA Integrated Services Network (NISN). Responsible for a variety of services including DNS (BIND), e-mail (Sendmail), capacity planning, service level reporting, and fault and performance management (Concord eHealth). Supported Oracle servers in conjunction with DBAs. Developed and maintained internal tools for systems and network management.

Network Engineer · *NASA / Getronics Government Solutions (April 1999 – March 2000)*

Designed, provisioned, and maintained wide-area network services for NISN customers, including NASA centers, universities, and research institutions. Worked with WAN technologies including IP, ATM, DSL, frame relay, Ethernet, FDDI, SONET, T1, and T3. Optimized network routing in core and distribution layers using BGP4, EIGRP, OSPF, and RIP. Managed peering with other NASA networks and with commercial Internet providers at exchange points including MAE-EAST, MAE-WEST, and Ameritech AADS. As a subcontractor on the Consolidated Space Operations Contract (CSOC), interfaced with peer organizations (engineering and operations) as well as NASA customers (mission support and International Space Station primary investigators) and prime

contractors (Lockheed-Martin and Computer Sciences Corporation).

Network Engineer · *Airnet Internet Services (August 1998 – April 1999)*

Provisioned and supported Internet access services including dial, ADSL, ATM, and frame relay over DS0, T1, and T3. Supported post-merger consolidation of systems and networks.

Special Skills

- Software development in languages including Java, Perl, C, and C++
- Knowledge of operation and internals of operating systems including Linux, Solaris, AIX, HP-UX, and Windows
- Socket programming on Linux, Unix, and Windows using Berkeley sockets and Winsock
- Development of portable code and porting existing code among Unix and Windows platforms
- Server-side web development with Apache, Perl (CGI and mod_perl), Tomcat, JavaServer Pages (JSP), HTML::Template, HTML::Mason, and PHP
- Client-side web development with HTML, XHTML, JavaScript, AJAX, CSS, and XUL
- Database-driven development with Perl DBI, Java JDBC, and PHP using Oracle, MySQL, PostgreSQL, and SQLite
- System and network task scripting in Bourne, Korn, and bash shells, Perl, TCL/Expect, and VBScript
- Internationalization (I18N) of cross-platform web and thick-client applications
- Experience with Check Point FireWall-1 / VPN-1, Provider-1, and OPSEC
- Source code control with Subversion, Rational ClearCase, and CVS
- Installation and configuration of Asterisk Open Source PBX, including TDM, VoIP, application integration with AGI, and PSTN integration
- Excellent verbal and written communication skills
- Readily fluent in French; basic written and spoken Spanish

Professional Memberships and Certifications

- Atlanta Unix Users' Group
- Check Point Certified Security Administrator (CCSA)
- Cisco Certified Network Associate (CCNA)
- DNRC
- IEEE

Community and Volunteer Experience

- Habitat for Humanity
- Boy Scouts of America – Eagle Scout

Education

- Sun Certified Java Developer track courses: *Java Programming Language (SL-275)* and *Object Oriented Analysis and Design Using UML (OO-226)*
- University of North Alabama – Professional Geography with Computer Science emphasis and French language minor

References available upon mutual interest.