W. Tait Cyrus

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PROFILE

Twenty years of computer engineering experience with proven abilities in skills ranging from software design to hardware design, web design, configuration management, system administration, testing, networking and security. A quick learner, a team player, as well as a self starter. The ability to coach others, strong follow-through, and advanced problem solving abilities. Vision to anticipate problems and needs in both the short term and long term, and the ability to use new technologies.

COMPUTER LANGUAGES & SKILLS

OS: Extensive UNIX (Solaris, Linux, and HP-UX), system administration, security

Software: C, C++, Perl, shell scripts, Java

Hardware: Sun, x86, HP, familiar with Convex, DEC, Encore, Sequent and various microprocessor families

Other: Web design (Perl/mysql), networking (TCP/IP, security)

SELECTED ACHIEVEMENTS

Automation

Increased developer productivity by writing a suite of automated object oriented Perl scripts and UNIX shell scripts (over 20,000 lines) for supporting software builds and web page status reporting in a multi platform environment. These scripts decreased developer down time by 10% saving the company approximately $2,500/month over the life of several projects.

- Created a software build environment supporting 3 software projects running on 4 different platforms (Solaris, HP-UX, Linux & Windows) that was automated providing hands free builds that were consistent and reproducible from build to build. One of the projects required continuous builds (every 5 minutes) to support an extreme programming team.
- Designed and created a web page reporting mechanism that provided developers with instantaneous feedback on the status of current and historical builds and automated test runs.

System Software

- Improved the stability and the performance of a 25,000 line UNIX security analysis tool. Performance was improved by an order of magnitude allowing for significantly faster analysis of customer's computers.
- Worked on a 1+ million line C++ and Motif Solaris system administration application (AdminTool and AutoClient) that eliminated the need for customers to have knowledge of the Solaris operating system allowing lower-cost junior system administrators to manage a Solaris system.
- Wrote a 2000+ line shell script to reduce the need for customers to manually install software patches to their Solaris operating system (primarily AutoClients).
- Wrote a UNIX script that provided the test team with the ability for multiple testers to run tests on a single machine. Prior to this script, only a single tester could run at a time.
- Wrote tests for a real time operating system improving the performance and stability to customers.
- Wrote a UNIX like operating system for a Z80 processor. Also wrote a UNIX vi like editor with enhanced capabilities to support user defined fonts and on the fly graphics. This editor eased the development of graphics for a basketball arena message system.
- Wrote Perl scripts to perform Y2K analysis of over 1+ million lines of C++ and Motif code allowing error free running at customers site.

Web Design
- Wrote a Perl "plugin" augmenting the support provided by TWiki, a Web-based collaboration platform. This plugin allowed users the ability to create dynamic web pages based on data in multiple databases.
- Installed and maintained 4 TWiki based web sites. One internal to the company and 3 for not-for-profit companies. The company internal site helped establish communications between developers, testers, and management for several projects. TWiki allowed simple updates of web pages by individual members of the various teams without the need for any web design experience.
- Created two CDROMs containing over 1,700 photographs allowing users to navigate through the photographs using HTML pages. These HTML pages had presorted the photographs giving users several choices of how to view the photographs.

Software Installation
Configured a Java based install environment (InstallAnywhere) for 7 products producing CDROMs that supported installs on multiple architectures (Solaris, HP-UX, Linux, and Windows NT). Also wrote numerous UNIX shell scripts, Windows BAT files, and Perl scripts that were used during and after product installs providing customers with consistent interfaces to the products. These installs provided a consistent and reproducible installation environment (previous installs were all manually performed).

System Administration
- Performed system administration functions for numerous UNIX systems including Solaris, Linux and HP-UX.
- Reduced development, test, and deployment down time by solving complex UNIX administration and programming problems.
- Taught a 4-day beginning UNIX class, a 4-day advanced UNIX class, and a 5-day Perl class.

SECURITY CLEARANCE

Held a DOE "Q" security clearance through August 1990.

EMPLOYMENT HISTORY

Configuration Management & Senior Software Engineer	Mindport, Inc., Colorado Springs, Colorado	1998 - present
Senior Software Engineer	MCI, Colorado Springs, Colorado	1998
Software Instructor	Ten Queue, Monument, Colorado	1997
Software Engineer	Sun Microsystems, Colorado Springs, Colorado	1993 - 1997
Software Engineer	Convex Computer Corp., Colorado Springs, Colorado	1990 - 1993
Research Engineer & Programmer/Analyst	The University of New Mexico, Albuquerque, New Mexico	1982 - 1990

EDUCATION

M.S. - Computer Engineering, The University of New Mexico
B.S. - Computer Engineering, The University of New Mexico