

Larye D. Parkins

600 Turner Avenue

Shelton, WA 98584

(360) 426-1718 larye@parkins.org

Objective

Senior or lead systems administration position in medium to large-scale site using UNIX as the predominant client-server environment. Will consider contract or full-time employment

Skills

- Operating Systems: Installation, upgrade, and administration of Solaris 2.4 through 10; Tru64 4.0/5.1; UNIX SVR4; Linux (Debian, Ubuntu, CentOS, Red Hat, Slackware, SuSE, Raspbian); FreeBSD; Windows NT 4.0, Windows 95/98/2000/XP/7/8/10.
- Clustering and Virtualization: Installation and support of ROCKS, Xen, VirtualBox, VMWare, as well as ad hoc clusters built with Sun GridEngine, and dnsmasq.
- Hardware: Installation and upgrade of Sun SPARC servers and workstations through Sun T-5220; SGI, Unisys U-6000, CDC 4000-series; Compaq AlphaServer 2100; Intel-based PCs and servers; single-CPU and SMP systems
- Applications: Installation, upgrade, and administration of Oracle 7.3, 8.1, MySQL, MariaDB, and PostgreSQL; Netscape Enterprise Server 2.0 through 3.5; DiskSuite; POP3/IMAP; Apache; Samba; Microsoft Office/Open Office; BLAST, MUMmer3, clustal-w, MPICH2
- Programming: Recent experience includes UNIX shell scripting; Perl; C; Ruby, LISP, MySQL, Python. Specialize in bioinformatics data analysis and web interfaces to custom bioinformatics applications.
- Management: Supervised up to eight technical staff; managed project office; project engineer for \$500K+ projects
- Teaching: taught undergraduate upper division computer science courses

Experience

1990-Present

Information Engineering
Services

Shelton, WA

Owner/Consultant: Information engineering, software engineering; data modeling, systems analysis and design; web design and programming; remote system administration; network hardware installation and upgrade for small business clients; and support for research projects

2001-2009

Perot Systems Government
Services (formerly Soza)

Hamilton, Montana

Unix Systems Administrator, Network Administrator. Manage Solaris and Linux networks at client site, National Institute for Allergy and Infectious Disease, Rocky Mountain Laboratories). Support bioinformatics infrastructure using commercial software, open source, and custom programming. Manage cluster of systems running the Finch Suite of Bioinformatics and the ERGO Bioinformatics Suite.

- Perl, BioPerl, C, Ruby, PHP, Common LISP, HTML, MySQL, PostgreSQL.
- Linux (RedHatEnterprise Linux 3 and 4, CentOS 5)

- ROCKS cluster management frameworks.
- Solaris 8,9,10 on SPARC
- Standard bioinformatics tools: BLAST, MUMmer3, Clustal-W, IQPNNI, Artemis, Phred/Phrap, Consed, and others.

1999-2001 University of Montana Missoula, Montana

Unix Systems Administrator, Computer and Information Services: Managed campus email system servers, DNS servers, on-line courseware servers, and computer laboratory server. Member of information technology committees advising on technology upgrades and information technology policy and procedures.

- Digital Unix 4.0E and ULTRIX.
- Solaris 8

1998-1999 Concurrent Technologies Bremerton, Washington
Corp.

Network Administrator: Manage corporate and customer internet, intranet, and LAN servers and networks, including:

- Solaris 2.5.1, 2.6 system administration
- Manage NT 4.0 servers with IIS 4.0 and Exchange 5.0
- Manage Cisco routers and access servers
- Provide second-level technical support for network customers

1992-1998 Chapman University, Bangor Silverdale, Washington
AC

Adjunct Assistant Professor: Taught undergraduate computer science courses, including Compiler Construction, Operating Systems, Artificial Intelligence, Programming Languages, and Data Structures, one to four classes per year: Used Unix, C, Common Lisp, CaML, and Prolog languages in classes. Part-time.

1996-1998 Anteon Corp. Bremerton, Washington

Systems Manager: Install, configure, and administer enterprise database, file, and Web servers for 500+ user client system (USACE Seattle District). Configure and maintain network information services: DNS, DHCP, NIS+.

- Solaris 2.5.1 system administration on Sun Ultra Enterprise/2 platform running Oracle 7.3, POP-3, NIS+, and DNS. Configured NIS+ and DNS.
- Converted COBOL, Fortran, C, and shell scripts on CDC EP/IX system to run on Solaris. Wrote shell scripts for UNIX in Bourne and Korn shell, and for UNIX and Windows NT in Perl 5.003.
- Administered Unisys U-6000 (SVR4) system, supporting Progress RDBMS
- Planned and executed conversion of Netware 3.12 system to Windows NT 4.0. System administration of Windows NT domain, including operation and maintenance of DHCP, Microsoft IIS, CCWeb, and HP JetAdmin.
- Administered and upgraded Sun Netra i system, including Netscape 2.0 Enterprise web server
- Monitor and troubleshoot LAN/WAN communications problems
- Configured network print interfaces across LAN/WAN, including HP JetDirect, LPR/LPD, and Novell PLPD.

- Participated in relocation, refurbishment, and reinstallation of network operations center.

1994-1996 SEMCOR Bremerton, Washington

Software Engineer: Systems analysis, design, programming for logistics planning; maintain system test procedures.

- Unix shell programming and administration
- MS-DOS/Windows programming and configuration
- Designed and implemented expert system in Common LISP
- CDS/TDS test procedure development and maintenance
- dBASE IV programming
- Project management and planning using WordPerfect, MS Office, MS Project
- Developed test plan for new proprietary system architecture using fiber optic LANs

1996 Olympic College Bremerton, Washington

Adjunct Instructor: Substitute instructor: C, Advanced C. Temporary, part-time.

1991-1994 Computer Dynamics, Inc. Bremerton, Washington

Project Manager: Managed field office for Virginia Beach, Virginia corporation

- Lead project team of up to five engineers and technical writers
- Revised and validated system test procedure documents
- Produced documents to strict format specifications and developed guidelines for specification changes
- Maintained database management applications using dBase IV in MS-DOS and Netware 2.2 environment
- Reengineered product applicability planning software, including normalizing system to relational form and incorporating expert systems technology, using Common LISP

1990-1991 Software Research Northwest Vashon, Washington

Software Engineer: Implemented enhancements to college administration software and non-profit organization management software, provided direct customer support, resolved problem reports; prepared user documentation. EasyReporter; COBOL; HP3000; MPE-XL.

1965-1990 Sperry Corp./Unisys Corp. St. Paul, Minnesota

Staff Engineer, Principal Engineer, Senior Engineer: Progressive career growth within customer service organization through long-term field assignments in New Jersey, Rhode Island, and Washington, as well as short-term assignments. On-site vendor technical representative at software development facilities: participated in system development teams for multi-computer real-time control systems.

- Systems troubleshooter: resolved unusual or catastrophic system events; wrote troubleshooting guides.
- Performed on-site customer service and support and directed on-site support teams
- Planned and directed systems test facility construction and implementation, including power, equipment foundations, chilled water plant, and data cable layout and fabrication.
- Wrote technical proposals
- Developed and conducted training for customers and employees
- Supported systems integration, certification, and software installation teams

- Developed software tools in assembler, CMS-2, Prolog, and Pascal; investigated software problems in distributed, parallel computing environment

Education

Master of Software Engineering	Seattle University	1991
BA, Physics	Wartburg College	1965

Associations

ACM, IEEE Computer Society, USENIX, SAGE, LOPSA

Publications

Adam D. Kennedy, Michael Otto, Kevin R. Braughton, Adeline R. Whitney, Liang Chen, Barun Mathema, Jose R. Mediavilla, Kelly A. Byrne, **Larye D. Parkins**, Fred C. Tenover, Barry N. Kreiswirth, James M. Musser, and Frank R. DeLeo: *Epidemic community-associated methicillin-resistant Staphylococcus aureus: Recent clonal expansion and diversification*, PNAS January 29, 2008 vol. 105 no. 4: 1327-1332

Graham MR, Virtaneva K, Porcella SF, Gardner DJ, Long RD, Welty DM, Barry WT, Johnson CA, **Parkins LD**, Wright FA, Musser JM: *Analysis of the transcriptome of group A Streptococcus in mouse soft tissue infection*, Am J Pathol. 2006 Sep;169(3):927-42

Kimmo Virtaneva, Stephen F. Porcella, Morag R. Graham, Robin M. Ireland, Claire A. Johnson, Stacy M. Ricklefs, Imran Babar, **Larye D. Parkins**, Romina A. Romero, G. Judson Corn, Don J. Gardner, John R. Bailey, Michael J. Parnell, and James M. Musser: *Longitudinal analysis of the group A Streptococcus transcriptome in experimental pharyngitis in cynomolgus macaques*, PNAS 2005 102: 9014-9019

Stephen B. Beres, Gail L. Sylva, Daniel E. Sturdevant, Chanel N. Granville, Mengyao Liu, Stacy M. Ricklefs, Adeline R. Whitney, **Larye D. Parkins**, Nancy P. Hoe, Gerald J. Adams, Donald E. Low, Frank R. DeLeo, Allison McGeer, and James M. Musser: *Genome-wide molecular dissection of serotype M3 group A Streptococcus strains causing two epidemics of invasive infections*, PNAS 2004 101: 11833-11838

Stephen B. Beres, Gail L. Sylva, Kent D. Barbian, Benfang Lei, Jessica S. Hoff, Nicole D. Mammarella, Meng-Yao Liu, James C. Smoot, Stephen F. Porcella, **Larye D. Parkins**, David S. Campbell, Todd M. Smith, John K. McCormick, Donald Y. M. Leung, Patrick M. Schlievert, and James M. Musser: *Genome sequence of a serotype M3 strain of group A Streptococcus: Phage-encoded toxins, the high-virulence phenotype, and clone emergence*, PNAS 99: 10078-10083

James C. Smoot, Kent D. Barbian, Jamie J. Van Gompel, Laura M. Smoot, Michael S. Chaussee, Gail L. Sylva, Daniel E. Sturdevant, Stacy M. Ricklefs, Stephen F. Porcella, **Larye D. Parkins**, Stephen B. Beres, David S. Campbell, Todd M. Smith, Qing Zhang, Vivek Kapur, Judy A. Daly, L. George Veasy, and James M. Musser: *Genome sequence and comparative microarray analysis of serotype M18 group A Streptococcus strains associated with acute rheumatic fever outbreaks*, PNAS 99: 4668-4673

Robert M. Haralick, Arun K. Somani, Craig Wittenbrink, Johnson, Kenneth Cooper, Linda G. Shapiro, Ihsin T. Phillips, Jenq-Neng Hwang, William Cheung, Yung H. Yao, Chung-Ho Chen, Larry Yang, Brian Daugherty, Bob Lorbeski, Kent Loving, Tom Miller, **Larye Parkins**, and Steven L. Soos,: *Proteus: a reconfigurable computational network for computer vision*, SPIE Proceedings Vol. 1659: Image Processing and Interchange: Implementation and Systems, Editor(s): Ronald B. Arps, IBM Corp., San Jose, CA, USA; William K. Pratt, Sun Microsystems, Inc., Mountain View, CA, USA. ISBN: 0-8194-0813-1, 360 pages Published 1992