

Richard Bullington-McGuire

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Objective

A senior software development position where the skills developed over 15 years will help build exceptional information technology systems

Skills

Software Development Skills

- 11 years of experience building online services using Java/J2EE and relational databases on Linux and Windows
- Full life cycle development using agile methods, focusing on frequent iterations and constant communication
- Software engineering skills: estimation, project control, configuration management, version control, defect tracking, release engineering, and packaging
- Languages: expert in Java, C, C++, SQL, Perl, bash, Visual Basic for Applications, XHTML, and CSS; experienced with Python, PHP, Javascript, Pascal, ASP
- Databases: PostgreSQL, MySQL, Microsoft Access, Microsoft SQL Server, Oracle, DBase
- Tools: GNU Make, Apache Ant, CVS, Subversion, RPM, Nullsoft NSIS, UNIX shell commands (sed, awk, cut, etc.)
- Platforms: Java/J2EE, Windows, Linux, CGI/HTTP, wxWidgets (cross-platform)
- Expert in content management systems, design patterns, OOP, internationalization, and application security

System Administration and Network Engineering Skills

- 16 years of experience in provisioning, building, and operating TCP/IP and Ethernet computer networks
- Linux expert and administrator since 1994, with a focus on Red Hat distributions, from Red Hat 4.0 to Red Hat Enterprise Linux 5.2
- Broad experience with operating systems: Microsoft Windows (3.0-Vista), Linux (Red Hat, CentOS, Fedora, Slackware, Ubuntu), Solaris, MS-DOS, Mac OS X, Netware, BSD UNIX
- Security: drafting security policies, firewall configuration, patch management, incident response, post-mortem analysis
- Migration of physical servers to virtual servers using Xen virtualization and iSCSI SAN storage
- Virtual private networking: IPSec, iptables firewalls, NAT, GRE tunnels, and OSPF using GNU Quagga
- SELinux policy development: allow applications to run with restricted privileges to prevent exploits
- Expert at deploying a full range of Internet services using Apache httpd, Tomcat, ISC DHCPD and BIND, and ntpd
- Provisioning of single-sign-on systems using LDAP as a core authentication and identity service
- Network monitoring systems: Nagios, MRTG, apcupsd, tcpdump, and other tools
- Provisioning Bacula to perform disk-based backup of server networks over LAN and WAN links

Publications

- "Recovery of RAID and LVM2 Volumes". Linux Journal, June 2006: 52-56.
- "Real-World SELinux". Linux Journal, July 2007: 84-88.

Experience

Managing Partner, PKR Internet, LLC (Computer Software Industry, Arlington, VA) May 2001-Present

Primary Functions: Software Developer, System Administrator, Business Manager

- Developed and managed a mixed public and private online service for thousands of financial advisors from around the globe for Morgan Stanley Investment Management, using J2EE, Freemarker, PostgreSQL, and Linux
- Wrote software that handled multiple languages, including both Western languages and Arabic

- Developed the Computerized Oral Proficiency Instrument software for the Center for Applied Linguistics, using a Windows multimedia development tool chain assembled from open source components: minGW C++, MSYS, wxWidgets, libsndfile, portaudio, and libspeex
- Developed and published Taskjitsu, Open Source web-based professional services automation software that tracks both tasks and time
- Developed multiple online services requiring PayPal payment gateway integration
- Provided training both to staff and customers on a consulting basis on software development practices and Linux system administration
- Provisioned and managed virtual hosting Internet e-mail systems, using both Sendmail and Postfix, with SpamAssassin, ClamAV, amavisd-new, dovecot, OpenLDAP, procmail, and gnarwl in supporting roles
- Coordinated actions of distributed development team working from 5 locations on 2 continents
- Handled all accounting, human resources, contracting, and business management functions for staff of 6 people

Chief Technology Officer, Microstate Corp. (Computer Software Industry, Dulles, VA) July 1997 – May 2001

Primary Functions: Software Developer, System Administrator, R&D Lead, Development Manager

- Developed web projects for Morgan Stanley, the Bermuda Stock Exchange, and other commercial companies
- Acted as co-architect of an Open Source application server written in Java, Microstate Hamilton
- Performed research and development in application servers, e-commerce software, and content management
- Drove adoption of Java, Linux, version control, estimation, design patterns, and XP
- Designed translation document exchange protocol using XML and HTTP
- Recruited, trained, and managed development team of 9 people

Founder and President, The Obscure Organization (Non-profit, Arlington, VA) April 1995 – Present

Primary Functions: Executive Management, Educator , System Administrator, Community Builder

- Founded 501(c)(3) non-profit organization dedicated to promoting creativity and community through technology
- Provisioned free Internet services using Linux for non-commercial use by individuals and non-profits
- Taught elementary-age children programming and design using Scratch, an MIT programming toolkit
- Contributed to the One Laptop Per Child project by provisioning a Jabber (chat) server for the D.C. area

Chief Technology Officer, Intelligent Decisions, Inc (Computer Manufacturer and Integrator, Chantilly, VA) June 1993 – June 1997

Primary Functions: Sales Engineer, Systems Engineer, Network Administrator, Programmer

- Supported company growth from 10 to 45 people, as sales grew from \$25 million to over \$100 million
- Provided pre-and-post sales support to key clients, including GTE and the U.S. Departments of State and Defense
- Created a Linux-based SCSI disk duplicator to aid in software distribution
- Built company's network, managed its servers, and connected it to the Internet in 1995
- Started Internet Services line of business acquired by Microstate Corp. (formerly ObjectLinks)

Professional Qualifications and Community Involvement

- Member of IEEE, IEEE Computer Society, and the Association for Computing Machinery
- Open Source project contributor: PostgreSQL, MRTG, JPackage.org, jabberd2, diradmin, wpDirAuth
- Second Vice President and Webmaster, Arlington Heights Civic Association (volunteer)
- Webmaster and Classroom Aide, Arlington Unitarian Cooperative Preschool (volunteer)

Education

Virginia Polytechnic Institute and State University, studies in Computer Engineering and Studio Art, 1990-1993
 George Mason University, studies in Computer Science, 1994

References available on request