MARIAN C. BUFORD

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HIGHLIGHTS OF QUALIFICATIONS

- An Information Technology professional with proven expertise in full life-cycle application development and server administration with varied platforms and environments

- Outstanding analytical and critical thinking skills with the ability to devise and implement creative technical solutions that return cohesive long-term results

- Self-starter with the ability to multi-task in fast-paced environments

- Reputation for strong leadership in a team environment

Languages:	PHP, SQL, HTML, XML, Javascript, Java, JSON, CSS, Shell scripting, Python, Lotus Formula/Script
Operating Systems:	MS DOS, Windows, Linux (CentOS and Fedora)
Frameworks/APIs:	CodeIgniter, Dojo Toolkit, jQuery, Google Maps, Twitter, Facebook, Sencha ExtJS, Bootstrap
Server Software:	Apache, MySQL, IBM Lotus Domino, CouchDB
Tools:	Visual SlickEdit, NetBeans, Subversion, Bugzilla, Redmine, Mantis, Git
Other:	Adobe Photoshop, Fireworks, and Illustrator, SSH Secure Shell, PuTTY, MySQLTools

EXPERIENCE

Teledini and StarPound Technologies, Atlanta, Georgia   July 2012 – present
Senior LAMP RIA Developer & Director of Integrations

Currently assisting this Atlanta-based startup to build a sound development and production architecture while providing various as-needed development services and mentoring a group of interns and developers in a variety of IT disciplines including general best practices in development and server/service administration procedures.

The environment requires exercising skills in PHP, MySQL, Javascript, HTML, CSS, Java, SIP, jQuery, Sencha ExtJS 4, Twitter Bootstrap, WebRTC, and XUL. The position also requires an understanding and ability to work with several third-party products and providers including Twilio, Bandwidth, StarPound, Stripe, and PayPal.

Among the sub-projects are these highlights:

- An ongoing project to develop a middle-ware API for internal and external customer use in consuming demographic and other statistical data. This PHP/MySQL/CouchDB module also provides several data connection and manipulation services for the Teledini product.

- An ongoing effort to provide a centralized service for increasing the efficiency of routing and maintaining communication services across the various systems and protocols.

- Working with internal and external developers to integrate WebRTC and XMPP into a major upgrade to the existing product offering.

- An ongoing Sencha ExtJS 4 project to provide the business with visibility and flexible management of the back-end services required in support of the Teledini infrastructure.

- Refactored DID call routing to utilize SIP in lieu of PSTN, resulting in increased end-to-end call response times and substantially lowered per-minute VOX costs.

- Support and extend the Java-based business logic model required by the StarPound Technologies, Inc. service which is used to support Teledini's SIP/DID call routing.

- Refactoring of the site on an ongoing basis, case by case basis, in order to migrate the underlying data to MySQL from CouchDB in areas where a structured data requirement is preferable given the target model, while leaving in place those data which benefit more from the non-SQL structure.

Conservation Resource Solutions, Inc. & New Frequency, Inc., Cumming, Georgia   October 2009 – June 2012
LAMP RIA Developer

Hired to maintain and extend the metered data application created while at Rearview Advertising in 2007/2008 as well as several new efforts.

- Refactored the extensive library of PHP OOP classes used to model five-minute interval metered data in order to allow its components to be lazy loaded. This increased the efficiency and load time of bringing thousands of points of data to the user through common Internet browser clients while rendering an RIA that leveraged Javascript and Flash charts.

- Stabilized, secured, internationalized, and maintained a Python/MySQL application used for tracking and alerting the status of wireless remote wildlife trap monitoring devices. This project utilized the Django framework on Apache along with Dojo Toolkit for Javascript functionality.

- Redesigned and ported Python/MySQL application to PHP/MySQL. Extended functionality included a daughter application targeting Android smart phones and tablets, iPads and iPhones.

- Developed several PHP applets to extend the trap monitoring application. Mini projects included:

  - A selection of cron-initiated command-line PHP and Shell scripts for tasks such as twice daily quality control reporting via email.

  - Utility applets to fill reporting and functionality gaps during a transition of the trapping application to its new architecture.

International Plant Nutrition Institute, Norcross, Georgia   April 2008 – October 2009
Information Technology Manager

Provided web-based and internal Lotus Domino development and system administration for internal clients and systems in over eleven countries; services provided both remotely from the Georgia based office and at client locations. The various projects required the use of PHP, MySQL, Lotus Formula and LotusScript, Javascript, ActionScript and Flash. The primary duties of the position entailed supporting and expanding upon a well established and diverse Lotus Domino-based library of applications. This position also required providing a full battery of IT services to staff members both as a remote service from the Norcross office and on site in the various countries.

Rearview Advertising, Acworth, Georgia   September 2007 – April 2008
Programmer/Administrator

Designed and developed Internet-based applications for both internal and external clients using PHP, MySQL, Javascript, HTML and CSS. Projects required extensive use of OOP and AJAX.

- Designed, developed and deployed the porting of a metered data energy usage management portal from ASP and VB/VB Script to PHP, MySQL and Javascript. The project required extensive use of advanced relational database query techniques and both functional and object-oriented development methodologies.

- Provided administration and installation of various CentOS, Fedora, and Windows servers.

United Technologies (Fire & Security Division), Norcross, Georgia   August 2002 – April 2007
Senior Systems Analyst, Programmer, Administrator

Provided full life-cycle programming and server administration of global Lotus Notes/Domino environment including systems integration using vbScript, Microsoft Visual Basic, Microsoft Access, Microsoft SQL and C# applications as required by the task being addressed for this 400-user, 35-server, global environment with offices in 16 countries.

- Deployed LAMP (Linux, Apache MySQL, PHP) server and Open Source CMS software to support Intranet environment. Developed custom PHP, MySQL enhancements and modules to extend the application as well as customized HTML and CSS templates to address the special needs of the environment.

- Numerous full life-cycle application design and development projects were undertaken and successfully implemented. These projects addressed a broad range of the company's needs. The applications were created using Lotus Notes or PHP, and integrated MySQL server, MS SQL server, vbScript, and C#. Representative categories of the applications developed are:

  - Utility applications to address security, internal audit and Sarbanes-Oxley needs

  - Administration applications to ease reporting and manipulation administrative data such as LDAP and usage and security logs

  - Customer support request applications to address needs of internal and external clients

  - Personnel change management applications for communication of new, changed, and terminated personnel information

  - Bug tracking, product, and project management applications

- Conducted analysis of existing Lotus Notes applications to determine their stage in the life-cycle and reduced the existing catalog of 400 applications to fewer than 100 through aging and consolidation. This resulted in reduction of support overhead and markedly improved server performance.

Wyrme Development & WyrmeNet, Roswell, Georgia   October 2001 – September 2007
Programmer/Administrator (Part-Time & Contract)

Engaged in short-term projects to provide Internet application development, database administration, and web server administration for small start-up companies while building LAMP development skills. These projects leverage various languages and techniques including extensive PHP, HTML and CSS use with AJAX enhancements. Among these projects:

- Designed and developed an e-commerce application to specifications which are unique to the automotive parts sales industry utilizing PHP, MySQL, HTML and CSS.

- Provided systems analysis and development for a real-estate listing search database and website with integrated CMS.

- Provided PHP, MySQL and CSS customization for various open source shopping cart and forum initiatives and assisted with administration of LAMP. environment in support of several production websites.

- Modified and developed customization modules for various open source shopping cart and forum initiatives and provided administration in support of several LAMP production websites using PHP, MySQL and CSS.

- Conducted server installation, CISCO firewall configuration, workstation support, and administration for Windows, Linux, and Novell servers.

Dennis and Company Research, Atlanta, Georgia   October 1998 - October 2001
Information Technology Manager

Primary duties spanned administration, workstation support and development for this small company with offices in four states. Tasks included:

- Administration and hardware support for Windows-based Compaq and IBM servers

- LAN/WAN administration and support

- Determining client and server infrastructure needs

- Coordinating subsequent purchasing, software and hardware installation, troubleshooting and maintenance of all workstation and server computers

Among the successfully designed, developed and implemented projects using Lotus Notes' Formula language, LotusScript, Command language, and HTML as appropriate, three were particularly well received by the company:

- Internet Opinion Survey database for a large national volunteer organization. Project was well received by the client and commended for quality, usability and expeditious delivery, thus opening doors for future online survey development.

- Database for internal tracking of demographic data for survey candidates. Final database was commended by Project Managers for usability and overall design. Application caught attention of competitive organization which prompted negotiations for purchase of the application.

- Marketing survey sample management and de-duping applications enabling 99.9% sample accuracy within drastically reduced timeframe from conventional methods.

The Coca-Cola Company, Atlanta, Georgia   August 1996 - October 1998
Programmer/Application Support Specialist

Began with the company as an application and workstation technician for a 600 client, multi-year, laptop-dependent, ERP implementation project.

- Promoted to Lotus Notes application programmer in 1997.

- Provided full life-cycle support and development of a multilingual suite of Lotus Notes applications in response to gap analysis in support of the company's years-long ERP Project that consisted of over 600 project team members.

- Coordinated with various corporate Lotus Notes support and server administration groups to implement and maintain security, and database deployment standards for the project.

Workstation support duties included building standard laptop and desktop software images, asset and security management, working with various corporate and vendor service providers to install LAN and voice cabling, diagnosing and repairing physical, protocol and application-layer networking problems in LAN and WAN, and installation and integration of Novell and NT-based Notes servers into the corporate network.

Client-focused duties included new user orientation and training and ongoing troubleshooting and support of end-user workstations.

BellSouth Telecommunications, Atlanta, Georgia   April 1996 - August 1996
Server Administrator/Technical Writer (Contract)

Deployed and supported Windows NT-based Lotus Notes server for internal workflow applications and internal email functionality in support of a mainframe upgrade and migration project as well as providing technical documentation services in support of the migration project.

The Coca-Cola Company, Atlanta, Georgia   March 1995 - April 1996
Technical Documentation Team Lead/Workstation Support Specialist (Contract)

Worked closely with the company's workstation support personnel to address the specialized needs of the training documentation team. Provided technical guidance as well as graphic documentation expertise to a team of individuals producing training documentation for a new product training initiative utilizing Microsoft documentation products (now Microsoft Office), Adobe PhotoShop and CorelDraw.

AER Energy Resources, Inc., Smyrna, Georgia | **Retail Store Services**, Alpharetta, Georgia   May 1994 - March 1995
Computer Aided Drafting Operator/Technical Graphics Specialist (Contract)

Provided various computer aided drafting and graphical services in support of laptop battery design and store space optimization projects.

ERM-Southeast, Inc., Kennesaw, Georgia   September 1990 - May 1994
Computer Aided Drafting Operator/Workstation Support Technician

Used AutoCAD, CorelDraw, WordPerfect software packages to provide full service civil engineering drawing and documentation services including preparation of camera-ready copy for four-color offset printing. Worked with various vendors and internal company resources to coordinate documentation production efforts. Was responsible for support of the AutoCAD computers client applications within the environment.

The Home Depot, Inc., Atlanta, Georgia   September 1988 - September 1990
Desktop Publishing Specialist/Forms Analyst/Workstation Support Technician

Worked with several of the company's internal departments to provide full life-cycle forms and marketing document management and desktop publishing services using Adobe Pagemaker in a DOS environment. Provided workstation and application support specific to the needs of teammates. Coordinated with professional trainers from Wang Laboratories to design specialized training in the use of computers and software for the documentation team resulting in improved production and accuracy within the environment.

Hitachi Maxco Limited, Kennesaw, Georgia | **Arrowhead Security Dist.**, Atlanta, Georgia   June 1987 - September 1988
Computer Aided Graphics Specialist

Used DOS-based software such as WordPerfect and Adobe Pagemaker to fulfill a wide variety of documentation needs from forms through booklets and marketing materials. Provided co-workers with technical support and training in the use of operating system, word processing, and graphic applications as required by the individual.

EDUCATION & TRAINING

American InterContinental University, Hoffman Estates, Illinois

- Current Studies: B.S., Information Technology – Programming, 2007
- A.A., Business Administration, 2006

Kennesaw State University CE, Kennesaw, Georgia

- Microsoft Networking Essentials, 2000

New Horizons, Atlanta, Georgia

- Exploring the New Features in IBM Lotus Domino 6 Administration, 2003
- Lotus Notes Application Development (1 & 2), 1998
- Lotus Notes Development (1 & 2), 1998
- Developing Applications with LotusScript, 1998

Philip Cosby Associates, Kennesaw, Georgia

- Total Quality Management (QWG)

LICENSES & CERTIFICATION

- Federal Communications Commission Amateur Radio Service license: Technician Class 2012. Call sign KK4IZL
- Microsoft Certified Professional Systems Engineer (MCSE), 2000
- Microsoft Certified Professional plus Internet (MCP+I), 2000
- Microsoft Certified Professional (MCP), 2000
- IBM Certified Associate (IBM CA), 1998

References and additional non-relevant experience, education, and training available on request.