Gary S

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Objective:

To obtain an information systems position that allows me utilize my experience working with software programming and database applications in conjunction with my skills in hardware and software implementation.

Computer Skills:

Languages: SQL, C/C++/C#, Visual Basic, PowerShell, COBOL, Assembly Language
Hardware: Maintenance of PC workstations, servers, Cisco switches, routers, firewalls printers
Databases: MS SQL Server, Sybase DMBS, MS-Access
Operating Systems: Microsoft Windows 95 – Windows 10, Microsoft Windows Server NT 4.0 – 2012 R2
Software: Medical Manager, Visual Cactus, MS Visual Studio 2005 - 2012, Microsoft SQL Server 2005-2014, Microsoft Office Suite 97 - 2016, Microsoft Visio Pro., Microsoft Exchange 2003 - 2016, Microsoft Small Business Server, Adobe Photoshop Suite, AutoDesk AutoCad, Microsoft SharePoint, Schneider Electric OASyS DNA Gas SCADA software suite 6.3-7.5, SolarWinds Software Suite, Symantec System Recovery, Veritas Backup Exec.

Education:

Fordham University, New York, NY – St. Johns University, Queens, NY
Bachelor of Science, Computer Science/Information Systems – December 2008

Relevant Coursework Included:

Structures of Computer Science	Mathematical Logic	Calculus I/Calculus II
Computer Science I (C++)	Data Structures (C++)	Internet & Web Programming (CGI/Perl)
Java Programming (Java)	Database Systems (SQL)	Network & Client Server Computing (Java)
Systems Analysis	Data Management (COBOL)	Object-Oriented Programming (C++)
Theory of Computation	Data Mining	Microcomputer Assembler Language
Intro to Network Forensics	Visual Basic Programming	

Professional Experience:

National Grid, April 2009 – Present

Associate Analyst ▪ *April 2009 – April 2012   Sr. Analyst* ▪ *April 2012 – Present*

Application Programmer
- Visual Basic/C++/C# Programming and Scripting
- Currently maintaining Visual Basic code for over 3000 displays within Gas SCADA application environment.
- Learning legacy/proprietary programming language Obel used in older SCADA system.
- Rewriting/converting Obel routines from legacy system to standardized Visual Basic code in current SCADA system.
- Writing custom code (ACE) for host calculations and manual point alarming on critical events.
- Writing and testing code for class methods and libraries for legacy objects not available in Visual Basic.
- Converting/translating/testing and upkeep all system displays (Over 2500) from the legacy SCADA system to new SCADA system for all operating regions.

- Establishment of standardized "look and feel" for system displays throughout all regional systems.
- Collaborating with system users in design of new displays to aid in operator accessibility for operation of system.
- Creation of documentation containing policies and procedures for display building, conversion and modification for SCADA system.
- Hosting periodic conferences and creating documentation of display standards/guidelines with Gas Control department for all operating regions in conjunction with API-1165 recommendations and standards.
- Assisting, training and providing expertise to fellow SCADA staff members in their individual display building tasks on system. Development of display templates for SCADA department staff members.
- Development of numerous support tools/programs/scripts within Microsoft Visual Studio environment using Visual Basic, C++, C#, ADO.NET libraries, to support and automate tasks within the SCADA applications environment;
    - Automated Display Distribution Tool,
    - Database Point to Display Reconciliation Tool,
    - Point Alarm Settings Auditor Tool,
    - WMI Health Publisher/Subscriber Application
    - User login Auditing/Reconciliation tool,
    - Map-board Refresh scripts,
    - Installed Software Auditing scripts.

Windows Domain Admin:
- Deployment and administration of over 100 servers and workstations (XP, 2003, 2008R2, 2012) for a high availability critical environment in 2 control centers.
- Configuration of inter-site transports between all domain controllers in both control centers to provide replication of domain data for high availability.
- Configuration and management of Active Directory, DHCP, DNS, Group Policy, Remote Access, Sites and Services for all WAN locations within SCADA domain.
- Configuration of all organizational units in accordance with Group Policy to ensure proper policies are applied to users.
- Review and auditing of Windows log files, software configuration logs on entire inventory to monitor any discrepancies or changes as part of change management process.
- Review and auditing of firewall rule-sets and traffic for entire SCADA WAN to ensure only SCADA required ports/services over dedicated fiber ring for GAS SCADA traffic based on "least required privilege".
- Review and reconciliation of corporate employee transfers, terminations with SCADA system access.
- Use of Visual Basic and PowerShell scripting to integrate automation of many administrative tasks.
- Design of SCADA system networking diagrams, data flow diagrams, hardware inventory diagrams, implementation diagrams using Microsoft Visio in preparation for hardware and software purchases for current SCADA system and upgrade projects.
- Providing 24/7 on-call rotation support for off-hours SCADA system issues.

SolarWinds Admin:
- Collaboration with Verizon SCADA networking department for implementation of network monitoring tools within the 2 control centers.
- Configuration and deployment of Windows 2012 Servers, SQL 2014 Servers in preparation of monitoring tools.
- Configuration and deployment of Kiwi Cat-Tools and Syslog Server for monitoring tasks and log reviews.
- Configuration and deployment of all SolarWinds Network Performance Monitoring, Software and Application Monitor, IP Address Monitor, Patch Manager for device health monitoring and alerting for all networking devices, servers and workstations.

WSUS Admin:
- Purchase, deployment and administration of WSUS servers for secure patch deployment in 2 control centers.
- Configuration and management of scheduled secure patch management and distribution for highly critical workstations and servers within subnets of varying security levels.
- Replication between downstream WSUS servers within each subnet and main upstream WSUS server in DMZ subnet based on least privilege necessary model.

Backup Admin:
- Purchase, deployment and administration of disaster recovery plan for offsite storage for 2 control centers using 'disk to disk to tape' model.
- Configuration of assigned backup jobs to run to local Synology NAS servers within each LAN subnet, then Dell Power-Vault Tape Libraries
- Catalog of bare-metal system images (factory/pre-patching/post-patching) using Symantec System Recovery 2013 for entire inventory of domain servers and workstations.
- 14 day scheduled rotation of incremental backups for critical data (realtime databases, SQL databases, Active Directory databases, critical file servers using Veritas Backup.

Antivirus Admin:
- Purchase, deployment and administration of Windows 2008R2 servers and McAfee EPO software for antivirus deployment for all servers and workstations in 2 control centers.
- Configuration of staggered schedules for daily .dat updates, daily memory scans, weekly disk scans and real-time access protection for high availability within the critical environment.

RSA Admin:
- Purchase, deployment and administration of RSA Secure ID, Appliance and Agent for Microsoft Windows for remote access into GAS SCADA environment using 2-Factor authentication for off-hours emergency support.

SharePoint Admin:
- File repository security administrator for employee access of highly confidential SCADA system documentation and various SCADA projects.

PLC programming:
- Converting and writing programs based on AGA3/7/8 calculation methods to C language blocks for use within PAC Systems RX/7i/3i programmable logical controllers.
- Testing and reporting sample data with Gas engineering department for expected results.

Project Lead for SCADA Gas Control Room Migration from Hicksville to Melville: (9/14 – 10/15)
- Interfaced with relocation project management team (Northstar Pres), audio/video consultants (CDA Consultants), digital display professionals (Show and Tell) and Technical Innovations thru numerous meetings in evaluating digital map-board requirements.
- Reviewed prospective offers from a/v vendors to determine best implementation practices for video map-board to interface and work on current SCADA system based on operating system/SCADA software limitations and constraints.
- Appraisal of available solutions based on schedule and budget constraints. Evaluation of appropriate hardware packages required to design map-board displays on current SCADA system editor based on specifications of video map-board wall configuration.
- Evaluation of recommended style guide – RGB colors, fonts, symbols, object sizes for optimal viewing distances. Configuration of custom objects, fonts and symbols within display editor.
- Designed high-pressure gas pipeline schematic image within SCADA display editor (pipelines, station objects, station labels, inlet, outlet pressures, flow values…) Completed creation of NYC, LI, UNY region maps. Total image size (19124x2304 pixels spanning across a 14x3 matrix of 65-inch LCD monitors).
- Configuration of system properly to incorporate map-board driver workstations.
- Setup and configuration of Jupiter/BARCO A/V equipment interfacing from driver workstations to map-board functionalities.

- Purchase, configuration and installation of SCADA workstations, monitors, networking and wiring of all operator consoles in new control room.
- Submitted purchase order requests for additional hardware required for completion of hardware setup required for SCADA stations for operator control. (Video-cards, network cards & hard drives).
- Implementation of basic hardware/OS software/driver image of a locked down secure workstation to clone to other workstations using Windows Sys-prep utility and Symantec System Recovery cloning software.
- All new workstations joined to SCADA domain, Schneider Electric SCADA software successfully installed/configured/antivirus deployed.
- New secure firewall ruleset created and deployed in collaboration with network department for SCADA subnet in Melville to ensure connectivity to all other existing Gas SCADA subnets within WAN.
- Setup and configuration of network connectivity within WAN to communicate successfully within all SCADA locations.
- Created custom scripts to refresh map-board displays on a daily basis to prevent system issues from arising in conjunction with Windows Task Scheduler.
- Networking tested vigorously thru firewall logs, windows event logs for 2 months prior to go-live-date of 10/1/2015.

Project Lead for Upstate SCADA System Consolidation with Downstate System: (9/14 – 9/15)
- Evaluation of system hardware and software requirements for gas department use of SCADA system within consolidated environment.
- Interfacing with gas department in determining functionality and requirements of new upstate display toolbar to create a seamless transition to the downstate production environment.
- Migrating all upstate displays from upstate SCADA system to downstate system. Initial conversion to scale displays to standardized display resolution.
- Conversion of all upstate displays to have a similar "look and feel" user interface to downstate New York/New England system. (Over 450 displays including creation of a new Syracuse displays toolbar, new Syracuse quick navigational links on main operator toolbar).
- Interfacing with users in determining preferences for quick navigational links and structure of toolbars. Design of new control template displays for all upstate sites and stations.
- Creation of "Priority Display" links using Visual Basic code within the SCADA system display editor for Upstate alarm points that automatically navigate to control displays to ease operator accessibility.
- Recoded and recompiled all Syracuse SCADA displays using application's Visual Basic code editor.
- Completed project of adding newly created Syracuse database points to all Syracuse displays in conjunction with field RTU/point testing schedule/database migration project.
- Creation of easier navigation/search functions for system operators.
- Migration/Setup of Upstate SCADA user accounts to downstate system. (Active Directory setup in SCADA domain controllers)
- Collaborating with network department to establish access and connectivity for upstate engineers to use system.
- Entire project completed with a seamless transition for Gas Control go live date on 9/2015.

References/Portfolio

Portfolio of written sample code and pictures of video map-board/control room integration and implementation are available upon request.

References are available upon request.

Stephen G. Rosen CPA PLLC Oceanside, NY, November 2007 – January 2008.

- Repaired and reconfigured Windows Server 2003, MS SQL Server 2003, Microsoft Exchange Server 2003 and workstations. Reconfigured Internet router, DHCP, DNS services, network printers. Configured and deployed new laptops and workstations. Configured access of remote desktop on laptops.
- Various accounting analysis

FRR Recovery, Inc. Melville, NY, August 2007 – September 24, 2007

- Development of operational policies and procedures in preparation of acquisition of daily operations *New York Network Management, LLC*

New York Network Management, LLC Brooklyn, NY, April 1999 – August 2007.

- Clerical staff (*April 1999 – April 2000*)
- Assisted Credentialing Department with physician credentialing *(April 2000- June 2000)*
- Claims entry processor with NYNM billing staff *(June 2000 – November 2000)*
- Payment Adjudicator with NYNM Billing Staff *(December 2000 – October 2002)*
- Knowledge of Medical Manager operating procedures-developed training manuals for claims entry, claims billing, payment posting, provider entry, cash analysis (from check deposit to accounting to payment disbursement)
- Responsible for tracking /analysis and reporting of deposits vs. physician payments utilizing MS-Excel spreadsheets
- Developed and maintained productivity reporting for payment adjudicators and claims processors for management *(June 2001 – December 2003)*
- Assisted in configuring company networking, switches, hubs, printers, PCs, Medical Manager server during company relocation *(October 2002)*
- Installed and administered Windows Server, MS SQL Server, Microsoft Exchange Server and Windows workstations. Responsible for installation of necessary software and applications on workstations *(October 2002- March 2006)*
- Installation and configuration of Visual Cactus database on SQL server and workstations *(December 2002)*
- Maintenance of Visual Cactus database, installation of server-side database upgrades and patches, deployment of client-side updates on all workstations (*2003- 2007*)
- Development and implementation of method for export of check registers/general ledger from within Medical Manager to QuickBooks for bank reconciliation purposes
- Developed methods utilizing OCR to scan paper EOB's and recreate remittances for physician reimbursements
- Responsible for full process of physician disbursement of payments for contracts *(2003 – 2006)*
- Experienced with basic bookkeeping functions – managed daily deposits procedures
- Worked closely with accounting staff in correcting financial discrepancies.
- Knowledge of reporting functions in Medical Manager, experienced in exporting raw data in multiple tables from Medical Manager into MS-Access tables to create desired reports using SQL query language
- Experience and knowledge in utilizing MS-Access to create relationships for requested reports from various tables from multiple databases.
- Strong knowledge and experience with creation of various reports from within Visual Cactus' report generator to assist credentialing staff with desired reports
- Knowledge of maintenance utilities and functions within Visual Cactus database
- Worked closely with CEO in preparation of necessary company reports and presentations for business meetings.