Director of IT

Business-centered IT director experienced in all areas of systems architecture, implementation, and sustainability.

Effective, reliable, and resilient IT professional with proven record of leading high profile strategic transformational initiatives that have directly impacted the success of the business. Leader skilled in strategic IT and business alignment, and IT organization development. Experience in team building, influence and alignment with individuals and multi-disciplinary teams across all levels of enterprise. Achieved success in normalizing, standardizing, streamlining, and fortifying IT infrastructure operations.

Work Experience

First New York, LLC (06/2012 - present)
Director of Technology (06/2014 - present)
Senior Systems Engineer (06/2012 - 06/2014)
Preeminent multi-strategy trading firm currently trading virtually all asset classes in US, Europe, Asia, South America and other emerging markets across all major global exchanges.
Responsibilities:
– Lead global IT team which includes Systems, and Network Engineers, DBA, DevOps, and Helpdesk.
– Responsible for technical vision of the enterprise systems infrastructure and budgetary controls.
– Head IT migrations for FNY US acquisitions. Lead projects to bring acquired companies to FNY standards.
– Provide technical guidelines for systems maintenance automation and manageability enhancements.
– Manage consultants, hardware and software vendors, cloud providers to execute on a vision, hold them accountable to deliverables.
– Direct technical implementation of partners' and counter-parties' initiatives.
– Create performance baselines, performance monitoring standards and capacity planning guidelines (PMM).
– Point of expertise for systems engineering staff, providing escalation support for unique operational issues, publicizing new tools, as well as streamlining systems engineering workflows.
– Leadership and mentoring during the project development process.
– Direct report to CTO.

Projects Accomplished:
– Directed migration of outsourced systems alerting and monitoring functionality in-house. Architected and managed roll-out of internal monitoring and automated response systems. Developed training program communicating changed procedures to support staff.
– Improved company's virtual infrastructure by architecting and managing implementation of clustered VMWare vSphere production environment designed to replace Citrix Xen 5 farm.
– Standardization of in-house infrastructure on hyper-converged Dell EMC VBlock platform.
– Re-architected and streamlined company's communication platform by consolidating pre-existing Microsoft Exchange 2003/2007 messaging platform into Microsoft Exchange 2010 environment.
– Responsible for architecture of the enterprise messaging platform consisting of MS Exchange 2016 and Skype for Business, including mobile, retention and compliance aspects.
– Significantly improved systems manageability and cost-effectiveness through server consolidation, severely reducing server count and significantly lowering licensing fees.
– Datacenter consolidation. The implementation of upgraded effective and efficient datacenter platform resulted in phase out of two regional datacenters.
– Designed and successfully managed deployment of improvements to company's resiliency schema aimed at

lowering costs while maintaining strict regulatory compliance.

– Established internal automated systems governance by deploying Microsoft Systems Center 2012 suite of servers. Implementation allowed for establishment of comprehensive code and change reviews standards.
– Deployed Microsoft RDS-based centralized desktop delivery solution.
– Mobile platform upgrade to Blackberry UEM / BlackBerry Dynamics mobile apps suite
– Migrating company's backup solution to Rubrik Cloud Data Management platform

Group One Trading, LLP (06/2006 – 06/2012)
Senior Systems Engineer
Group One Trading is one of the largest privately held options trading firms in the United States with Market Maker and/or Specialists operations on CBOE, ISE, NYSE ARCA OX, NYSE AMEX, and NASDAQ OMX PHLX.
Responsibilities:
– Responsible for architecture of the enterprise Windows infrastructure (DNS/DHCP/AD/GP).
– Ongoing enhancement of trading systems in a distributed heterogeneous Linux/Windows environment (over 100 trading infrastructure servers and 500+ quote compute nodes).
– Systems maintenance automation and manageability enhancements.
– Coordinate technical implementation of exchange mandated, options industry and FINRA initiatives.
– Represent the systems group in the proprietary software design sessions with the development team, ensuring optimal infrastructure utilization.
– Work with statistical arbitrage and algorithmic trading desks in order to formulate their unique systems configuration requirements, devising and executing implementation plans.
– Create performance baselines, performance monitoring standards and capacity planning guidelines for trading systems.
– Produce ongoing documentation for proprietary systems solutions. Maintain complete inventory and documentation of deployed systems.
– Manage and troubleshoot new software deployments.
– Identify needs and provide scripting solutions for Windows administration automation, systems audits, and enhancing existing software installations.
Projects Accomplished:
– Managed multiple physical infrastructure migration projects: directed local systems engineers during ARCA quoting infrastructure migration; coordinated Activ market data servers migration from Group One-hosted data center to Activ-hosted environment; coordinated the Group One specialist post move with the NYSE implementation engineers during AMEX merger with NYSE; planned and accomplished infrastructure servers' migration to a new data center in NY region.
– Created set of scripted tools designed for automated deployment and maintenance of proprietary quoting systems.
– Established Windows systems health-check and alarm criteria in Nagios enterprise monitoring system.
– Designed firm-wide VMWare ESX server farm deployment. Established guidelines for server virtualization. Created and executed migration plan for existing physical servers that satisfied virtualization guidelines.
– Devised, tested and implemented relocation plan for migrating firm's instant messaging platform - LCS/MindAlign - from San Francisco to Chicago data center by virtualizing LCS/MindAlign server farm.
– Scripted user migration from LCS to Microsoft Lync instant messaging platforms.
– Planned and implemented firm-wide deployment of the SharePoint document management system designed to replace shared folders.
– Virtualized Desktop Delivery Controller server of the enterprise Citrix farm
– Designed enterprise-wide Microsoft System Center Configuration 2007 deployment.
– Implemented SAN Solution based on HP StorageWorks P4000 systems, further reducing server deployment times while increasing systems availability and improving storage capacity utilization.

Medidata Solutions Worldwide (01/2006 – 06/2006)
Senior Systems Engineer

Medidata is a managed service provider that offers electronic data capture for clinical trials of pharmaceutical, biotechnology and other life-science companies in over 70 countries.

Responsibilities:
- Provided operational SLA based service and support of the underlying Microsoft Windows infrastructure consisting of 300+ Microsoft IIS web servers for the company's pharmaceutical clinical trial SaaS product.
- Security monitoring and reporting.
- Performed SAN compartmentalization via FC zoning and LUN masking.
- Cooperated with DBA team on SQL operations.

Projects Accomplished:
- Designed and implemented Blackberry Enterprise Server upgrade from version 3.6 to version 4.1 with minimal service outage.
- Arranged for external network vulnerability assessment and laid groundwork for future security certification.
- Introduced remote software deployment via Group Policy.
- Designed fault tolerant DHCP solution for enterprise deployment.
- Server consolidation using VMWare products, P2V transitioning.
- Transitioned from tape backup (Veritas 10) to Iron Mountain Server Electronic Vaulting solution.

TANSTAAFL Research and Trading (03/2001 – 01/2006)

Systems Engineer

TANSTAAFL had Market Making operations on the AMEX, BOX, CBOE, and PHLX as well as Specialist operations on the American Stock Exchange in a number of derivative products.

Responsibilities:
- Ensured day to day operations of the specialist post and floor traders on the American and Philadelphia Stock Exchanges and managing underlying Microsoft Windows infrastructure.
- Managed operations of numerous TANSTAAFL proprietary services including centralized Position/Vol/Trade notification management, proprietary instant messaging platform.
- Established business continuity and disaster recovery planning procedures. Coordinating company's BCDR efforts with data and execution providers as well as AMEX/PHLX (SFTI initiative).
- Provided for operations of proprietary applications (e.g. Goldman Sachs REDIPlus, Bloomberg TradeBook, and Instinet Portal) within the TANSTAAFL network. Managing deployment of automated mass quoting engine (Actant AQTOR).
- Collaboration with software development team on various proprietary software projects developing derivative trading applications.

Projects Accomplished:
- Designed Active Directory infrastructure (single-tree topology, providing regional offices with separate OUs for localized management). Deployed AD-integrated DDNS and DNS-integrated WINS servers.
- Accomplished migration from Exchange Server 2000 to Exchange Server 2003. Implemented remote email accessibility via Exchange Server OWA.
- Deployed high availability Microsoft Windows Server 2003/Microsoft SQL Server 2000 cluster. Working closely with database architects in design and implementation of TANSTAAFL SQL databases. Developed DTS packages and Stored Procedures using Transact-SQL. Created distributed SQL environment using replication.
- Simplified software installation through design of SMS 2.0 implementation. Performed upgrade to SMS 2003.
- Automated patch management via deployment of Windows Server Update services (WSUS).
- Worked on numerous projects involving administrative tasks automation through scripting (VBScript, WSH, ADSI, WMI, WQL). Simplified proprietary software deployment/monitoring via scripting.
- Directed workflow and trained branch office IT support staff. Created custom MMC snap-ins to simplify task delegation to lower tier administrators. Cut down helpdesk support time by roll out of remote control tools (Symantec PCAnywhere with AD-Integrated credentials).

Technical Skills

Trading software: Infrastructure systems for the industry standard and proprietary software solutions for trade

management, quoting, arbitrage, and electronic trading. Post trade processing, position, and risk management solutions.

Bloomberg AIM/ SSEOMS, Citco and FIX protocol**.**

Network Operating Systems: MS Windows Server 2019, 2016, 2012, 2008, 2003.

Virtualization: VMware vSphere6.6, vSphere 5.5, vCenter, vMotion, DRS, SRM, vRealize. Citrix XenServer**.**

Scripting: Powershell, VBScript, WMI, PowerCLI.

MS SQL Server 2012, 2008**.**

MS Exchange Server 2016, 2010.

Mobile device management (MDM): BlackBerry UEM, Good for Enterprise.

Windows Server services: AD, ADFS, DNS, DHCP, LDAP, Kerberos, NTLM, WINS, NetBIOS, DFS, Group Policies, IIS, WSUS, KMS, IRM/RMS, Storage Spaces, and SharePoint services.

Microsoft Systems Management and Automation suite: SCOM 2012, SCCM 2012, SCSM 2012.

Storage: EMC XtremeIO, Clariion CX300, CX500, Centera; Hitachi Data Systems AMS, Thunderbolt; HP StorageWorks, HP MSA**.**

Backup Systems: Veritas NetBackup, Rubrik**.**

Cloud Platforms: Microsoft Azure/Office 365; WebICE; Symantec MessageLabs; GlobalRelay.

TCP/IP networking (achieved Cisco Certified Design Professional designation)

Education and Certifications

Columbia University, New York, NY
Master of Science, Technology Management
PACE University, New York, NY
Bachelor of Science, Information Systems
Concentration in E-business
New York University, New York, NY
Certificate in Windows Systems and Network Administration (Microsoft Windows Server 2003)
New York University, New York, NY
Certificate in Object Oriented Programming using C++

Industry Certifications

Microsoft Azure Solutions Architect Expert, Microsoft, 1/2019 – 1/2021
Certified SAFe 4 Agilist, Scaled Agile
ITIL® Foundation Certificate in IT Service Management, Axelos
Windows SharePoint Services 3.0 and SharePoint Office Server 2007. NetCom
Microsoft Exchange Server 2007. Global Knowledge Training Center
Windows Server 2008 Administration with PowerShell. Global Knowledge Training Center
Former certifications:
Certified Information Systems Security Professional (CISSP®**)** – 2005 **–** 2008
Cisco Certified Design Professional (CCDP®**)** – 2000 **–** 2006
Microsoft Certified Systems Engineer (MCSE®**)** – 1999 **–** 2001

Columbia University in the City of New York (09/ 2013 – present)
Associate Lecturer, Columbia Center for Technology Management program
– Developed the social strategy and the instructional objectives of the course.
– Optimized student's online environment and improved the course technologies.
– Moderated asynchronous course activities on the course website.
– Assisted with student evaluation, evaluated student participation in live events as needed, as per course execution plans.