

JOEL WATTACHERIL

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PROFILE Dynamic, skilled IT professional with over 13 years of proven success in managing numerous projects supporting multiple technologies in the Telecommunications and Networking field specializing in E-Commerce, WAN and various military technologies. Expertise lies in design, installation and troubleshooting of secure large scale networks focusing primarily with Cisco equipment. Corporate professional with extensive relevant experience influencing organizational performance. Accomplished in strategic direction, enhanced security, data center operations, and application optimization that maximize growth and organizational sustainability. Exceptional at cultivating and diligently maintaining alliances with senior executives as well as high ranking military officials. Technical lead of many teams to provide solutions on-time and within budget exceeding organizational objectives. My dedication to achieving company and client goals, combined with my commitment to personal and professional growth, will enable me to make a meaningful contribution to your organization.

RELATIVE SKILLS

- C/C++, Objective-C
- Shell Scripts (bash, ksh)
- Assembly, Python, Perl
- CCNA, CCNP
- CWP (Wi-Fi), Adv Wireless Certified
- Foundry Certification
- Wildpackets Etherpeek Sniffer Certified
- NCE - NARTE Certified Engineer
- Voyance, Alterpoint
- Ciscoworks, QIP, Opware
- Network General Distributed Sniffer
- PostgreSQL, MySQL
- Cisco Catalyst 2900, 3500, 4500, 6500
- Cisco 3000 VPN concentrators
- Cisco CSS 11050, CSM, SCA
- Cisco Firewall PIX 5XX/ASA
- Cisco AP 1200 Fat & Thin Clients
- Cisco 2800, 3800, 7200 routers
- Foundry (ServerIron, FastIron, NetIron)
- Juniper (Peribit) App Accel.
- Citrix WanScalar
- OPNET Suite (SP Guru Sentinel, ACE, ACE Live, Report Server, Modeler)
- Windows (3.XX, 95, NT/2K/XP/2K3, Server 2008, Vista, Win 7)
- Unix (SunOS, Linux - Red Hat, SUSE, Gentoo, Debian, Ubuntu LTS, HP-UX)
- TCP/IP, UDP, ICMP, VTP (Vlan)
- HTTP, HTTPS, OSI Model
- RIP, BGP, EIGRP, OSPF, IS-IS
- Frame Relay, HSRP, VRRP
- Frame to ATM, ATM to ATM/IMA
- TACACS, RADIUS, 802.11 a/b/g
- Netflow, Sflow, MRTG, Unix network tools
- HACMP CDP
- SSL, TLS SMB, NFS
- FTP, TFTP SCP, SFTP
- LDAP MPLS
- SMTP IMAP
- POP3 DNS, DHCP
- NTP, SNMP
- SSH, QOS, SOX

EXPERIENCE

- 2007**
Present
Sr. Network Engineer
OPNET Tech
- Lead engineer for a large government military contract requiring TOP SECRET clearance.
 - Aided in the design of methods for live network data collection using a non-intrusive industry recognized methodology.
 - Developed large complex models of the client's networks and created customized scripts to perform automated tasks aiding in the processing of large amounts of data.
 - Simulated live network traffic to develop utilization metrics for capacity planning, survivability, QoS, and other analyses.
 - Aided in developing and delivering briefings for upper management and military commanders.
 - Lead engineer in implementing the largest HVNES deployments for world's largest financial institution. Implemented a hybrid Linux/Window platform supporting over 40,000 network nodes
 - Generated automated reporting structure for numerous operations and engineering teams
 - Aided in the development of the products by creating SPRs and bug fixes.
 - Trained and mentored new consultants as well as client representatives to the customized intricate work flow developed at the client's site.
 - Earned an OPNET's Outstanding Achievement award due to the efforts put forth with this client.

**2005-2007
Network
Engineer**
Xerox -
ACS Inc.

- Principle engineer for a large Fortune 500 Insurance company's migration of technical assets supporting hundreds of applications in a 24X7 data center environment.
- Aided in the design of the data center infrastructure for the client's 500+ server environment.
- Performed capacity planning of core infrastructure devices to support future growth.
- Analysis of current real-time backup environment to achieve more throughput.
- Supported various Disaster Recovery tasks including DNS administration and application restoration.
- Participated in on-call rotation for the client's global network infrastructure
- Designed and installed several in-house monitoring tools for performance and maintenance.
- Performed regular maintenance of network equipment including Cisco routers, switches and firewalls. (Cisco 7200, Cisco 6500, Cisco Pix 525).
- Support for a distributed sniffer environment for troubleshooting problem applications. Aided in the layout of the main security architecture in the core data center environment. (Cisco 6500 spans and Cisco IDS)
- Support of Midrange devices including IBM P570/P590 series and Sun Microsystems devices.
- Designed client's branch office network utilizing layer 3 switches and a full meshed BGP implementation.
- Support and enhancement for application acceleration appliances. (Juniper WXC Series) VPN migration from current Nortel appliance to Cisco 3030 environment.
- Building and executing of various scripts to bring network into best practice compliancy.
- Involved in several Client branch moves which entailed circuit turn-up and various equipment support

**2001-2005
Network
Engineer**
Ripple
Solutions

- Design and implementation of a network solution for a multi-office tax franchise utilizing a proprietary DOS based tax program integrated into a Windows 2000 client/server model
- Implementation of backup network link over ISDN to remote offices. (Cisco 2600)
- Served as lead technical advisor for a large non-profit organization within the DFW metroplex moving existing Windows 98/ME clients to Windows XP/2000
- Design, testing and training of new networking technologies for clients as well as field engineers for local DSL project utilizing SOHO routers, Wi-Fi technology, and proprietary software, (Cisco 600, 800 routers, Cisco AP 1100, 1200)
- Provide on-going technical support for implemented services according to the scope of the project
- Implemented various Internet services such as a SSL FTP servers, secure mail server (Postfix & Qmail w/ MySQL backend, web servers based on Apache, IIS, and Netscape).
- Integration of Cisco 3600 series routers with Open Source VPN software solution to provide a low cost VPN alternative
- Spearheaded a special project to implement routing over VPN tunnels utilizing OSPF or EIGRP.
- Cost analysis of bandwidth upgrade path for Wireless ISP backbone. (Frame Relay, T1, Various MAN technologies)
- Turn-up of Frame Relay Point to Multipoint for local main office to connect to regional offices
- Linux kernel hardening and Intrusion Detection implementation for use with DMZ based services. (i.e. Firewalls, SMTP relays, etc)
- Linux based security bastion host for traffic monitoring/shaping utilizing IPtables, Snort and various other Open Source applications
- Unix based implementation of a secure automated off-site file repository utilizing SSH, SCP, rsync and Perl scripts.
- Implementation of AAA server for a Wireless ISP user authentication.

2000-2001
Network
Design
Engineer
epicRealm
Inc.

- Aided in the design and implementation of a globally dispersed reverse proxy cache content distribution network utilizing intelligent proximity site selection via DNS load balancing. (Foundry ServerIron, IBM Netfinity, Cisco routers, Cisco VPN Conc.)
- Designed an out of band management solution using terminal servers in remote locations. (Cisco 2611)
- Led product testing of various types of equipment from modular rack servers to SSL acceleration products. (Intel SSL accelerator, Avaya SSL Accelerator)
- Developed a procedure to integrate all network equipment into a RADIUS authentication system. Includes Cisco 2600, 3600, VPN Concentrators, and various Foundry network equipment.
- Aided in the development of testing methodologies for the Quality Assurance department. (LoadRunner, Perl Scripts, Apache Web servers)
- Designed and tested a load-balancing solution to incorporate SSL traffic to overcome the Foundry ServerIron's inherent limitations. (Foundry ServerIron XL)
- Performed extensive 3rd party hardware and software SSL acceleration testing.
- Developed a cost analysis for procuring a dedicated backup circuit to synchronize critical system fail-over data. Implementation on Cisco 3600 series router to fail-over to backup T-1 link.
- Implementation of a BGP listening probe for real-time network proximity calculations. (Cisco 3600, 7200 series routers)
- Design and implementation of a high-availability cluster configuration. (Intel, Open Source)
- Designed and implemented a Cisco Catalyst 6500 high-availability (HA) architecture utilizing HSRP and dual supervisors.
- Integration of an IPSEC VPN solution utilizing proprietary Cisco hardware to Window 2000 users. (Cisco VPN Concentrator)
- Certified with network analyzers and optimization techniques using Network Sniffer and Wild Packets Etherpeek network analyzers.

1998-1999
Network
Integration
Specialist
Blythe-
Nelson

- Aided in the design and layout of a cabling infrastructure for one of the oldest museums in the local area.
- Established cabling requirements, route design and AutoCAD layout of design specifications. Aided in the design for another client's new Network Operation Center's internal LAN.
- Developed an objective comparison matrix of the latest Gigabit and ATM technologies to form a "best fit" overall snapshot of the present day technology and its future possibilities to aid the client in designing the network.
- Development of an IP scheme for the new campus environment along with the hardware design specifications.
- Worked on NT 3.51 to NT 4.0 conversion of PDC and developed migration plan to upgrade hardware of an existing PDC seamlessly.

EDUCATION

SMU College of Engineering
Texas A&M University - BSET - Telecommunications

References Available Upon Request