
PROFESSIONAL SUMMARY

OBJECTIVE: Seeking strategic business development opportunities that will leverage 20-years of technical, strategic, and leadership accomplishments, to full-cycle assist clients in their adoption of the Utility Computing (Cloud Computing) model within their organizations.

See website: <http://info.ComputingArchitects.Com>

Strengths include:

*Technical Thought Leadership | Innovative Design & Architecture | Team Direction & Motivation
Cross-Functional Collaboration | Manage Vendor Relationships | Enterprise Level Management*

SELECT HIGHLIGHTS

- **Gave presentations and engaged by C-level and sales personnel to help them understand the multiple approaches to Utility (Cloud) Computing.** Topics included the various On-and-Off premise deployment models (private, hosted, managed); The cloud-service-layers (IaaS, PaaS, SaaS); The business-level Risk/Reward profiles of cloud approaches; In the case of private cloud implementations, hardware procurement practices to maximize ROI; In the case of Off-premise implementations, application migration approaches to a *aaS platform; and more. The challenges I assist IT executives & staff with are summarize here:
<http://www.computingarchitects.com/RESUME.d/UtilityCompute-Concepts-Questionnaire.pdf>
- **Designed small private Elastic Compute solutions based on Eucalyptus (eucalyptus.com) cloud platform.** This IT-as-a-Service (IaaS) technology gives organizations *compatible* Amazon AWS elastic computing, block storage, and S3 functionality in their own private datacenter. Also created customized Virtual Machine Images based on their requirements.
- **Designed and built New York Mercantile Exchange's the first ever local and long distance Storage Area Network,** providing real-time, intra-and-cross datacenter Business Continuity & Disaster Recovery through application clustering techniques & fiber-optic DWDM based replication between storage arrays.
- **Led New York Mercantile Exchange data center migration from New Jersey to Long Island;** created inventory of all hardware; developed application dependency based logistics plan to transfer hardware in stages; obtained necessary move insurances; contracted trucking company, and oversaw laborers to seamlessly execute project.
- **Co-Designed and implemented Cablevision Inc's. Sun/EMC/Veritas/SeaChange/Java based Video-On-Demand** systems infrastructure and services; after testing, subsequently worked on it's strategic roll-out plan which aligned the new technology infrastructures with aggressive growth and market expansion in the New York tri-state area.
- **Co-Designed and implemented the core INET (now NASDAQ's) Electronic Communications Network (ECN) systems infrastructure** through which global financial institutions and traders connect to buy/sell equities (a.k.a. The NASDAQ stock exchange). Collaborated with senior management to facilitate disaster recovery site selection and data center migration, post INET merger with NASDAQ. Consolidated information and data from both organizations as part of designing DR site in Ashburn, Virginia.
- **Led full lifecycle of projects valued between \$5 and \$10 million;** partnered with clients, gathered functional requirements, designed customized platforms, and implemented Sun Microsystems solutions.
- **Helped design and relocate the Sumitomo Bank treasury department trading floor;** collaborated with Sun, Reuters, Telerate, Knight Ridder, and other vendors, engineers, and laborers to ensure seamless trading continuity for traders.

PROFESSIONAL SUMMARY

In 1997, founded a consulting firm, Rensselaer Technology Group, to offer comprehensive technology solution guidance and implementation for clients in various industries with diverse needs. Where noted below, performed consultative work under this firm.

VICOM INC, New York, N.Y. 2011-Present

Cloud Strategist / Solutions Architect

Brought on to help VICOM (a hardware reseller) by simultaneously educating them about the broad cloud computing paradigm, as well as to develop a solutions portfolio that could help their customers with cloud enablement activities and platforms. Activities include, presentations to strategic customers and vendors (such as IBM) about utility compute approaches; engaging partners to craft real-implementable solutions to address client needs; designing and documenting prototyped platforms for demonstration; implementing mini proof-of-concept (POC) platforms at customer sites (such as CloudStack platform), etc.

LIMELIGHT NETWORKS, New York, NY Feb 2011 - July 2011

Principal Professional Services Engineer (Employee)

Professionally engaged with Limelight clients to strategically assist with Cloud Content Distribution Network (CDN) related technical matters (short term to help specific customers).

RENSSELEAR TECHNOLOGY GROUP, New York, NY 2007-Feb 2011

Eucalyptus ITaaS Cloud Design Engineer (Consultant)

For various clients, designed private IT-as-a-Service (IaaS) Elastic Compute Clouds and Elastic Block Storage based on the Eucalyptus 2 cloud platform, for their Test/Dev/QA environments. Also created customized Virtual Machine Images based on their requirements. Technologies include Eucalyptus, KVM, Apache, Linux, ATA over Ethernet.

The CITY of NEW YORK / SAIC, New York, NY 2006-2007

Senior Systems Engineer (Consultant)

Created a Sun/EMC/Veritas based compute and storage infrastructure for The City of New York's web-based employee time tracking system that streamlined and standardized employee hourly wage tracking across all municipal agencies, which allowed the city to better record employee time, as well as forecast operational budgets.

INET / NASDAQ, New York, NY 2005-2006

Senior Systems Engineer (Employee)

Co-redesigned a high-speed UDP broadcast based Electronic Communications Network (ECN) that facilitated trading for large global financial institutions; the engine matched 60-70 billion trades daily. Led a four person team that maintained ECN network, servers, and embedded Linux and JRE based software. Analyzed system and network protocol performance; wrote a C program to manage ECN node states. Directed the migration of the platform post INET merger with NASDAQ; ensured a seamless transition.

PRIMUS FINANCIAL / RAINBOW MEDIA, New York, NY 2004-2005

Data SAN Architect (Consultant)

Consulted for Primus Financial and also Rainbow Media (Cablevision) on the development of data storage/SAN environment. Defined business requirements, designed EMC Symmetrix and Brocade Fibre Channel-based storage solution, produced technical documentation, and trained day-to-day operations personnel.

The New York Mercantile Exchange, New York, NY 2002-2004

Lead BC/DR/HA Infrastructure Architect (Consultant)

Developed a HA and DR replication strategy for New York Mercantile Exchange data; relocated unused Hitachi HSD9960s storage systems at the primary and disaster recovery sites, established fibre optic DWDM connectivity to synchronize enterprise critical data via TrueCopy; clustered servers to ensure business continuity, and analyzed data center migration, adoption of new product risks. Reviewed and restructured or terminated unnecessarily burdensome vendor contracts, which fostered effective budgeting.

MAIL.COM., New York, NY

1999-2000

Lead Senior Infrastructure Design Engineer (Employee)

Led a team of 10 engineers. Designed, built, and administered Sun/Solaris, Veritas, and EMC-based SAN for personal & corporate email, calendaring, and media content site. Implemented the Resonate based load balancers. Created a replication strategy for disaster recovery risk management; partnered with vendors to define project scope based on business requirements and managed development.

CHASE MANHATTAN BANK, New York, N.Y.

Senior Systems Engineer (Consultant)

1998-1999

Created global Sun Solaris solutions for Chase Manhattan Bank. Designed, tested, and built disaster recovery platform for Chase Private Key Infrastructure. Customized and maintained the standard Solaris O/S build used for Sun servers across the bank globally.

SUN MICROSYSTEMS, New York, NY

1995-1998

Senior Professional Services Engineer

Consultant to Sun clients to provide technical design, architecture, and integration of Solaris and SPARC-based computing and storage solutions; managed 12 accounts. Served as SME regarding technical capabilities during the sales process. Recipient, Sun Microsystems Northeast Area's Engineer of the Year in 1995.

THE SUMITOMO BANK LTD., New York, NY

1994-1995

Trading Floor Systems Designer & Administrator

Integral contributor to the design, relocation, installation, and administration of a 70-terminal trading floor, including Sun, UNIX, trading platforms, facilities cabling, and network maintenance. Supported Dow Jones Telerate, Reuters/RSF+, Knight Ridder, and Teknekron MarketSheet products. Co-designed Teknekron TIB router system that automated internal communication.

SARNOFF RESEARCH (GE/RCA LABS), Princeton NJ

1991-1993

Software/Computer/DSP Hardware Design Electrical Engineer

Contributed to a 12-person design to build a DSP hardware boards that originated DirectTV satellite Television capabilities. Interfaced a UNIX serial port to a receiver board used in RCA's development project.

GE AEROSPACE, Syracuse, NY

1990-1991

Communications Electrical Engineer

Participated in designing, coding, and testing of software for military protocols for the NAVY Seawolf Submarine defense project. Provided communication between listening devices and submarine operating systems.

ACADEMIC BACKGROUND

BOSTON UNIVERSITY, Boston, MA

Master of Science in both Electrical & Computer Engineering (dual masters).

RENSSELAER POLYTECHNIC INSTITUTE (RPI), Troy, NY

Bachelor of Science in Electrical Engineering**Certification:**

JAVA Programming - New York University, School of Continuing Professional Studies, 2010

TECHNICAL PROFICIENCIES - TO FACILITATE DESIGNS*Cloud platforms:* Eucalyptus Cloud Platform 2.x*Programming Languages:* UNIX Shell, C, Core Java, Python3*Operating Systems:* Solaris, Linux, KVM*Storage & Compute Platforms:* Sun, EMC, Hitachi HDS, Brocade, Cisco SAN, Veritas*Web Technologies:* HTTP, HTML, XML, Tomcat, Servlets, REST/Query, Amazon AWS