Raj Mars Marni
www.rajmarni.com

Hands-on Cloud Infrastructure and Application Architect with Management Experience. Technical Experience in Kubernetes, Security, Network, and DB on AWS, Azure, Google, IBM, Oracle, and Alibaba Cloud.

Lives in Las Vegas, Nevada P/T residence in N. Virginia and Florida.

Email: rajmarni@gmail.com

Phone: 1-725-200-2010

See my skills in action online:

Technical projects

sambar.one

k8or.com

Financial writings

www.empower99.win

Whitepaper on AI BOT Driven Paradigm

k8or.com/white-paper

Snowflake 2024 Challenge

sambar.one/snowflake/index.html

Summary of Latest Projects, Expertise, Experience, Education, and Whitepapers

I am hands-on & willing to demonstrate my presentation & technical skills online LIVE via Zoom.

My Latest Projects as Cloud and Kubernetes Infrastructure and Applications Architect on multi-cloud, Azure, AWS, GCP, DO, Oracle Cloud, IBM Cloud, and Alibaba Cloud, include:

a) A web app for finding anomalies and trading opportunities in stock and futures markets. I am the infrastructure and application architect for **Trades as a Service (TaaS)** analytical platform using PaaS tools, microservices architecture, and Big Data resources on AWS, Azure, GCP, and DO. Cloned this trading platform to Kubernetes on AWS EKS, Azure AKS, and other cloud providers to create a PaaS solution on Kubernetes along with terabytes of time-series data in Kubernetes native Postgres Timescale time-series database. **View the web app at [www.sambar.one.](www.sambar.one)**

b) Designed, developed a new "BUY" Kubernetes cluster model that streamlines deployment of K8s components and applications with pre-built solutions for orchestration, container image optimization, customized k8or OS, multi-level security hardening at the OS, package, and application level. **K8or cluster are pre-built with CRDs to access ANY resources from seven major cloud providers. View the k8or cluster architecture at www.k8or.com**.

c) Written several technical papers on Infrastructure and Application design, development and automation using AI. You may view my latest writing - **BOT Driven Infrastructure and Application management Paradigm** at **www.k8or.com/white-paper** and implemented the same using Vector DBs, DataStax Cassandra, Lang Chain, Llama Index, Python, Snowflake and Streamlit on K8s clusters at CPs AWS, GCP and DO.

d) Participated in Snowflake 2024 challenge by extending K8s CRDs with custom controllers to integrate Snowflake, ML, AI models, and containerized services with any Cloud Provider. View the documents at **www.sambar.one/snowflake/index.html**.

e) Applied for several patents in IT and Financial domain with US PTO.

My management experience includes:

- Building & leading teams during development, operations, and support phases
- Deep understanding of technologies, platforms & tools, SLA management, incident resolution, and automation implementation
- Mastery of infrastructure, application, and data architecture disciplines and presenting the same to C-level executives
- Developing & presenting architecture, design, and business process flows to management.
- Financial controls and budget management for an onshore, offshore projects
- Dealing with large scale IT companies, technology implementations, & people management
- Managing operations of large-scale internet-centric production environments for infrastructure or application services serving a large end-user base.
- Helping coach & mentor team members by conducting training sessions on various topics

My areas of technical expertise include:

- Enterprise Cloud Application Cost, Reliability, Operational, Performance, Risk Analysis and Security optimization on AWS, Azure, IBM using industry best practices.
- Integration & automation of security with CI/CD for DevOps on AWS, Azure
- NIST, FedRAMP, FIPS 2/3 HIPAA, & NIST cybersecurity framework compliance standards and their implementation on AWS, Azure, IBM, Google clouds.
- ISO/IEC information technology, application security, and security techniques
- On-prem to Cloud migration, infrastructure deployment automation using DevOps.

- Big data analytics & visualization using PaaS resources on AWS, Azure
- DSE Cassandra, Solr, Spark for data store, search & analytics either on-prem or Cloud
- Enterprise application design, implementation & migration from multi-tier architecture to microservices architecture on AWS, Azure, GCP, IBM Cloud, Oracle, DO, Alibaba Cloud
- Helping start-ups implement cloud solutions, DevOps, DevOps and SysOps.
- Experience in designing and implementing PaaS, SaaS or (X)asS solutions for leveraging enterprise intangible assets for revenue generation on AWS or Azure
- Experience using messaging queue systems – Kinesis, Kafka and RabbitMQ for FinTech.

- Implemented K8s security with Calico, logging and monitoring with Prometheus, Grafana
- K8s cluster automation with Terraform, K8s experience with AWS EKS, Rancher, GCP.
- Experience with CRDs, operators, coredns, various run-time container engines in K8s.
- Large scale infrastructure build automation using Kubernetes, Cloud Formation, Resource Manager and multiple CI/CD tools such as Jenkins, Chef, Ansible, Terraform, Spinnaker
- Migration and performance analysis of RDMS in K8s and custom operator development

My work experience at fortune 500 companies:

- **30+ years** total in infrastructure & application design including **11+ years** on cloud platforms.
- **Common Securitization Solutions (CSS).** JV of **Fannie Mae & Freddie Mac**. - Financial
- **3M - Health Care -** Big data analytics in Cloud
- **State of Texas – Government** - Enterprise document management in GovCloud
- **Gilbarco - Consumer -** Gas Stations, Retail Outlets - Big data analytics in Cloud
- **Fareportal - Travel -** Moving on-prem infrastructure to Cloud.
- **HPI - Health Care -** Cloud infrastructure setup and support
- **Home Depot, Bank of America, SWIFT, Advance Auto Parts, Comcast, Symantec**
- **Adobe, ADP, Discover, Equifax, FedEx, Sabre, StarZ, Shutterstock, Fiserv, TD Bank**
- **Capital One, CISCO, Expedia, Ford, GE, L'Oréal, Sabre, Ralph Lauren, AT&T, T-Mobile, NYC Care, REMAX, Boeing, NASA, and many others.**

My unique qualities:

I love technology and I design secure enterprise cloud infrastructures, applications on AWS, Azure using Netflix OSS frameworks and with various DevOps automation tools confining to established industry standards, best practices, and operational procedures.

Broadly classified, there are two groups of IT people in this world: Group one chooses IT careers for money and group two wants to craft unique technological solutions for a given problem and see it through, thick and thin, until the goals are reached. I fall in the latter group and I am passionate about creating innovative solutions - not for title, power, position or money. With this passion I invent and provide technological solutions for a given project keeping organizations and teams at the forefront. Please view my latest projects at www.k8or.com and at www.sambar.one.

My abilities include being:

- Open-minded, attentive, willing to listen, exploring alternate views and creating. multiple options to generate a WIN-WIN outcome for all parties involved.
- Able to seek solutions to tough challenges by dissecting problems, soliciting inputs, envisioning outcomes, formulating goals and executing plans with consensus from team
- Willing to learn and play any role for the good of the organization, team and project. regardless of my education, knowledge, experience and expertise.
- A fast learner venturing into multiple technologies such as ML, AI, blockchain, to keep up to date with changing corporate technology landscape.

Places Worked and Tasks Performed

Aug. 2020 – Present	Multi-Cloud & Kubernetes Architect – AWS, Azure, GCP IT Consultant at **k8or.com** and **sambar.one**

I worked PT 30 hours a week while maintaining a FT job. I spearheaded the design and development of a new "BUY" Kubernetes cluster model, streamlining deployments. This model includes pre-built solutions for orchestration, container image optimization, and a customized k8or OS. Additionally, it implements multi-level security hardening at the OS, package, and application levels. For enhanced cloud provider flexibility, k8or clusters come pre-built with Custom Resource Definitions (CRDs) to access resources from major cloud providers. Reported to: Multiple Associates.

Aug. 2021 – Aug. 2023	Customer Success Manager – IBM Cloud Architect Consultant at **IBM**

I was the technical expert helping existing Fortune 100 clients **American Express, Nationwide, PayPal, Chubb**, and others adopt IBM Hybrid Cloud and AI. I engaged with these clients designing, architecting, and providing guidance on their hybrid cloud and AI deployments, helping with architectural and deployment solutions, and optimizing resources usage and utilization costs to improve ROI. This role also focused on pre-sales and post-sales new clients by leading teams helping them with design and engineering activities on IBM Cloud. Reported to Chris Crane.

Skills

Cloud Services

Amazon Web services, Azure, IBM Softlayer. GCP, Oracle, Digital Ocean Alibaba Cloud.

AWS

EC2, Route 53, VPC, ELB, VPN, Auto Scaling, S3, Kinesis, EBS, Data Pipeline CloudFront, Glacier, RDS, DynamoDB, Cognito, Beanstalk, ElasticCache, IAM, CloudWatch, RedShift, SNS, SQS, CloudFormation, SWF, OpsWorks, and many other AWS resources. Not all listed here as AWS adds new services and resources frequently.

Project Management

MS Project, Asana. Developed plans, assigned resources to tasks, tracking progress, deadlines and workloads.

Operating Systems

UNIX/Linux – Diff. version, Windows Server 2012 and lower, Docker and LxC Container Technologies.

Content Management Systems

WordPress, SharePoint with InfoPath. Installed, configured, integrated and hosted using LAMP, WAMP stacks on AWS and Azure.

Jun. 2019 – Aug. 2020

Kubernetes SME - Architect
IT Consultant for **Acquia.com**

Worked on Polaris migrating their legacy hosting platform to Kubernetes. Acquia is the world's largest Drupal CMS hosting platform with over 20,000 plus sites from all industries. Since January of 2020, I did a technical analysis of the of legacy environment from an Operations and Support teams' perspective and documentation of how these two teams day-to-day processes and procedures change in a Polaris/Kubernetes environment. I had an in-depth understanding of both Legacy and Kubernetes infrastructures, policies, procedures, and related source code and documentation. Reported to: Ed Brennan

Dec. 2015- July. 2020

Cloud Architect & Kubernetes SME – Part-time.

Samurai Tech. Corp. - Financial Analysis Project

View web app @ www.sambar.one

Researching, evaluating, integrating, and testing the right technologies for developing a patent pending financial services platform which converts information into strategies and monetary results. This technology can be diversely incorporated into various subject areas, such as mathematics, science, and economics, to name a few. Upon its release this services platform will focus primarily on analyzing articles published in financial newspapers, magazines, newsletters, websites, blogs, and books to provide insights into market strategies with such clarity anyone can comprehend the message with minimal knowledge in the subject area. A web-based SaaS platform implemented on AWS. Managed 54+ employees/consultants from India, Ukraine, Slovenia.

Sep. 2016 – Nov. 2018

Solutions Architect – Infrastructure & Big Data
DataStax – Cassandra, Solr & Spark related Projects

As a Solutions Architect, my responsibilities included:
Enterprise application design, implementation and guidance leading to successful development, configuration, and delivery of large-scale, distributed solutions built on the DataStax Enterprise platform. Created presentations and POCs for customers highlighting the capabilities of DSE. Customer support and maximize DataStax success through effective mentoring and product positioning. Offering technical insights for customer engagement, internal initiatives, and product development.

Nov. 2014 - Aug. 2016

IT Consultant - Cloud Infrastructure Architect
Smartronix Inc. – Infrastructure, App & Big Data Projects

As a Senior AWS Solutions Architect, my responsibilities included: Owning the technical engagement and ultimate success around specific implementation projects; defining implementation architectures, responding to Proof-of-Concept implementations, developing necessary technical documents and infrastructure scripts, helping clients develop an expertise in the AWS technologies as well as broad know-how around how applications and services are constructed using the cloud platform, and a subject matter expert on cloud computing and technology as it relates to building and migrating customer applications and services. Reported to: Anthony Vultaggio

Jul. 2006 - Jul. 2014

IT Consultant for various companies PT and FT

Self Employed - AWS Cloud Architecture Projects

After the financial hit I took due to the collapse of Clarixxon, I contacted several IT firms in the DC area to sell and salvage the

Software Stacks

Open-source web application development and deployment using LAMP, WAMP stacks under Java, PHP.

Protocols

TCP/UDP/IP, HTTP(s), IPsec SIP, SNMP. Extensive knowledge and experience in utilizing these protocols in various projects and wrote several technical papers as part of the project at Harvard.

Integrated Development Environment (IDE)

AWS Toolkit for Eclipse, WebMatrix. Debug and Deploy apps. Elastic Beanstalk Deployment and Cloud Formation Editor. Used several IDEs throughout my career.

Databases

MySQL, PostG for Relational, DB2 for Hierarchical (XML), DB2 BLU Acceleration. Schema Development to warehouse NASDAQ equities data into MySQL and DB2. XML database (DB2) schema development to store XML documents in hierarchical format. Extensive experience with AWS databases. NoSQL Cassandra & MongoDB. Time series: Influx & Timescale DB.

Database Administration

PhpMyAdmin, Data Studio. DB admin, Backup, Replication, Export, Import. Moved years of NASDAQ Equities, data between Databases.

Prototyping

Axure, Balsamiq, Lucid Charts, Visio. Wireframe, UI and Prototype development for web and mobile applications.

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software developed at Clarixxon for several years. With morale low and more mishaps and tragic events, I took a break from IT endeavors to spend time with my family. This gave me the opportunity to rethink about my future, taking courses online to augment my education around big data and data analysis and identified four key skills to acquire to rebuild myself. A few months later, I started IT consulting with companies and invested majority of time in education on cloud computing, big data, networking, programming. With access to AWS resources, I was able to experiment, build, reconfigure, and tear-down complex systems configurations. Finally, in May of 2012, I started to architect and build the technology engine for SAMURAI's Analytics As a Service ("AaaS") platform.

Jul. 1998 - Mar. 2004

CEO/CTO

Clarixxon Technologies Limited - US Taxation Project

Using my own financing, I was the first to start a multi-million dollar. web based federal and state taxation application development project. with 60 plus software developers and another 60 plus accountants in India. The business model is based on outsourcing the US taxation. services - Federal and State - to India and US clients having web based interaction and live online help - 24/7- from US certified CPAs stationed at Clarixxon offices. A summary of my responsibilities included:

- Space acquisition and infrastructure build-out.
- Network Design and connectivity from the Indian office to the ISP in the US.
- Export of necessary hardware and software to India.
- Talent acquisition - Developers, accountants and support personnel.
- Conducting training sessions to 60 plus accountants on the US tax system.
- Writing business rules to translate tax logic into software modules.
- Application architecture design for federal and state taxation modules.
- Training on web technologies used in the development process.
- Working with UI teams for application and web interface design.
- Leading a unit testing team for integrated testing of the web application.
- Demonstration of the product and services to potential clients in the US.
- Working with multinational banks to take the company public.

Mar. 1998 Apr 2004

CTO

Clarixxon Corporation - US Taxation Project

While at Clarixxon, my duties included managing both the US company and the Indian subsidiary, listed above, at the same time. Due to the time difference of almost 11 hours, I worked with the Indian team members, technical and accounting, from 2 AM until 9 AM EST using video conferencing, IM, etc., and again at the US office from 11 AM until 6 PM EST. I also flew to India quite frequently and spent months discussing both technical and non-technical issues. My duties at the US office primarily included marketing and sales of the web application developed in India.

Jul. 1996 - Apr. 1997

IT Consultant

Booz Allen Hamilton - Chemical Industry Project

Worked on the MSDS (Material Safety Data Sheet) project at the Chemical Manufacturers Association in Arlington, VA on behalf of BAH. Designed, acquired hardware and software, programmed and developed a client/server architecture-based system for moving the MS data sheets from the legacy system and provided dial-up access to the new system. Reported to Mr. Larry Cooper.

Application Server

Zend Server PHP, Tomcat Java.

Data Analysis

R Language, R Studio, Excel. NASDAQ equities real data analysis, linear regression, correlation coefficient of two equities.

Extract, Transform, Load (ETL)

Telend, Excel Macros. Accessing web services and importing NASDAQ market data (intraday, EOD, historic) and used these two tools to clean and populate data into MySQL and DB2.

Trader Intelligence (TI)

PivotTables, Excel. Created unique charts and graphs to understand and trade commodity arbitrage opportunities in a dashboard format. Built several TI dashboards with futures contracts data and will be hosted at www.sambar.one.

Message Formats

XML, JSON. Exposed all NASDAQ equities warehoused data under the DaaS model using XML thereby outsourcing the presentation layer and enabling multiple output formats.

XML Related

XSLT, XPATH, XSL, XSD. Mixed elements from different schemas (XSDs) to define new XML instances on the fly.

Web Services

WSDL, SOAP, UDDI. Exposed years of NASDAQ equities (2918) data to be consumed by other services.

Jul. 1995 - Sep. 1996

Systems Team Lead

Unisys - State Health Information Project

Lead a team of systems professionals and developers in designing, programming, integrating and testing the Unisys Health Information System (HIM) for various state health agencies. Reported to Mr. Jerry Anderson.

Nov. 1992 - May. 1995

Unix Systems Administrator/Integrator

Hughes Network Systems - Internal Support

Started as a contractor and became an employee. I was a member of the systems/network support team and my responsibilities included new system installation, configuration, networking, maintenance and user support. Reported to Mr. Shah Behzadi.

May. 1992 - Oct. 1992

IT Consultant

AT&T Government Services - IRS Project

Designed and implemented a test bed for document scanning, indexing and sharing application for the IRS. Successfully completed the project on time and on budget and lead a team of four. The proposed system was designed as per IRS requirements. The knowledge I gained here led me to start a web based and outsourced financial services company called Clarixxon in 1998.

Sep. 1991 - Jan. 1992

Systems Engineer - Consultant

CACI - Army Project

Networking configuration, management and development of several UNIX systems in support of a government project at several Army bases on the East Coast. Collaborated with other teams and project lead at the base to ensure the application worked as intended. Reported to Mr. Jay.

Sep. 1989 - Sep. 1991

UNIX Systems Administrator

Boeing Computer Services - NASA Project

Started as a consultant and became an employee. Managed multiple UNIX systems performing day-to-day administrative tasks and provided systems programming help to the development team for the NASA Space Station Project. Reported to Ms. Annette Brady.

Jan. 1986 - Apr. 1989

Systems Analyst/Administrator

Howard University - Campus Computer Center Support

UNIX systems administration and computer lab support at the University's main computer center serving students and faculty of several thousands. Reported to Dr. Janet Nicholson.

Jun. 1987 - Aug. 1987

Internship

AT&T Bell Laboratories - Canadian Magacom Project

Worked on the Canadian Magacom project and my first exposure to programming with UNIX internals with a team of developers at the birthplace of UNIX. Reported to Mr. Al Frides.

Web Servers

Apache, Nginx, Installed, configured, integrated and administered for various system configurations on AWS.

Network Monitoring & Security

Wireshark, Nmap analyzed packets to troubleshoot VoIP and Network Performance Issues. Sophos UTM installation and configuration.

Languages

HTML, PHP, JavaScript, LaTex, Python, and C.

Financial Analysis using R

Created a data-warehouse on AWS for futures contracts on CME and performed analysis to prove certain hypothesis. Good knowledge of statistical analysis techniques.

Systems Integration

Integrated several open source and standards based products into the LAMP and WAMP stacks using PHP JavaScript.

Big Data

Hadoop ecosystem creation and integration with R for analysis. Processed TB's of commodities data from exchanges around the world into HDFS clusters, statistical analysis with R and building visualizations with charting tools such as High Charts, Google Charts for custom TI (trader intelligence) dashboards.

System Ops. & Monitoring

Grafana on Ubuntu, Puppet on Ubuntu, CloudFormation, Nigios

Skills & Tools Summary - Rated 1-10, 10 being an expert

- Enterprise architecture frameworks - FEA, TOGAF – 7, eTOM, many other(s)
- AWS cloud services – 8, GCP – 7, IBM Cloud – 6, Oracle Cloud – 7,
- Azure cloud services – 7, Alibaba Cloud 5, Digital Ocean – 8.
- Microservices - Netflix OSS frameworks and libraries – 8
- Languages – R – 7, JavaScript -6, Python – 7. C – 7, PHP -7.
- Kubernetes, automation, networking, security, monitoring, custom operators - 8
- Encryption - KMS, AWS secrets, EaaS - 6
- Messaging brokers - Kinesis, Kafka, RabbitMQ - 5
- Container orchestration – Kubernetes - 8, AWS Fargate - 7 and Mesos - 3
- DevOps, DevSecOps, CI/CD, Jenkins, Chef, Ansible, Spinnaker. Terraform – 8
- Blockchain - IBM Hyperledger Fabric, JPM Quorum – 6
- Agile scrum project methodology and project management – 7
- Git, Gitlab, Atlassian Jira, Confluence and other - 7
- Machine Learning GCP TensorFlow – 6.
- Website Layout, Design, Development, Content, Testing, Hosting – 8
- UNIX/Linux System Administration - CentOS, Ubuntu, Red Hat and other flavors - 8
- DNS, DHCP, Webserver Configuration - 7
- OS - UNIX Internals - 8
- Docker, LxC, Container Technology – 8
- Analytics - Spark, Solr, Elasticsearch – 7
- Error logging, alerts - ELK stack – 6
- Dashboards - Tableau, PowerBI - 6
- Coaching on various technologies and financial subjects – 8
- Software Product Development - 9
- VPN Setup, Subnetting, ACL's, Routing tables, SGs, VPGW, Direct Connect - 8
- IP Security, Packet and Traffic analysis - 7
- Windows Server Administration - 6
- RDS - MySQL, Postgres, DB2 Installation, Configuration and DB Schema Development – 7
- DB Time series - Influx, Timescale DB – 6
- NoSQL – Cassandra, DataStax DSE - 7
- XML Database DB2 – 7
- Statistical Analysis and Data Modeling using R - 7
- DB admin, Backup, Replication, Export/Import with PhpMyAdmin, Data Studio – 7
- LAMP, WAMP Setup on AWS, Azure and Integration with Other Software Modules – 7
- UI Prototyping for Web and Mobile - 6
- XML Schema Development (XSD), Stylesheets (XSL), XPath - 7
- SharePoint Installation, Configuration, Management, Integration with InfoPath XML documents on AWS – 7
- Software Project Management - 7
- Project Requirement Analysis, Documentation, and Translation into Product, Service, Network, Computing, Storage Resources - 8
- Technical Talent Identification and Recruiting - 8
- Data Cleaning using ETL Tools & Massive Data Population into a DB - 8
- Dashboards - Google Charts, High Charts, Fusion Charts, and other charting tools - 8
- HTML, XHTML, CSS - 6
- PHP, JavaScript, Markdown - 6
- Altova XML Missionkit – 7

- XML and various subset languages such as XBRL – 7
- R Language Integration with MySQL, DB2 and Apache – 7
- R Studio, Latex– 5
- Vector DBs – Pinecone -7, DSE Astra-7.
- Zend AppServer, Tomcat – 7
- WordPress on LAMP/WAMP Stacks and Integration with Various Plug-ins and Software Modules - 7
- Multi-Node Apache Hadoop Cluster Setup in Cloud - 7
- Sophos UTM, Open VPN, OpenSwan - 7
- Windows and Linux OS hardening based on CIS recommendations- 8
- Ubuntu, k8or, CentOS, Busybox, Alpine, Windows, MacOS, and other(s) - 8
- Systems Integration Testing based on NIST recommendations – 7
- Xceedium, Splunk and Nessus – 6
- Lang chain - 6, Llama Index - 5, Lang flow -6, Streamlit - 6
- Snowflake Data warehouse ecosystem – 7
- NVIDIA GPU Operator and Container Toolkit - 7

Degrees Received

Jan 2014 - Nov 2016	**Master's degree in information systems (Dropout)** **Harvard University** Information Management Systems Concentration: This master's degree in the information technology graduate program examines the integration of business strategies and processes with computer systems. I learned how organizations and global competition are transformed by IT developments. I concentrated on courses related to Cloud Computing, Big Data Analytics and Visualization. Due to heavy workload and family obligations, I discontinued the program after successfully completing several courses with a B+ GPA.
Jan 1986 - Jun 1988	**Master's degree in computer sciences** **Howard University** Database and Compiler Design Concentration: Much of the course work at that time was in UNIX System V internals, Database Design and Management and Compiler Design. Much has changed since 1988 and I decided to pursue a second master's degree and augment my knowledge through Coursera. GPA B+.
Jan 1980 - Jan 1984	**Bachelor's degree in mechanical engineering** **M.I.T, Manipal, India** One of the Premier Institutions in India and current Microsoft CEO Mr. Satya Nadella, graduated from this institute with a bachelor's degree in 1986. I would love to teach a course at M.I.T or at another institute one day. GPA A (Converted to US grading system from Indian marks system).

Additional Continuous Education

Healthcare Innovation and Entrepreneurship

Duke University

Completed all course assignments.

Gamification

University of Pennsylvania

Completed all course assignments.

Web Intelligence and Big Data

Indian Institute of Technology, Delhi, India

Completed all course assignments.

Financial Engineering and Risk Management

Columbia University

Completed all course assignments.

Developing Innovative Ideas for New Companies &
Surviving Disruptive Technologies

University of Maryland

Two separate courses. Completed all course assignments.

Health Informatics in the Cloud & Computational
Investing, Part 1

Georgia Institute of Technology

Two separate courses. Completed all course assignments.

Neural Networks for Machine Learning & Statistics:
Making Sense of Data

University of Toronto

Two separate courses. Completed all course assignments.

1) Data Analysis & 2) Computing for Data Analysis

Johns Hopkins University

Two separate courses. Completed all course assignments.

Technical papers

Wrote several technical papers on subjects such as VoIP, Protocols and Virtual Teams
Management.

Financial articles written, analyzed, & strategized

Analyzed several financial research reports produced by various brokerage firms, commodity
exchanges (CME Group) and universities and converted them into live trades with visual
representations using graphics, tables and text easy comprehension.

View @ www.empower99.win

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