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Currently working as Cloud Solution Architect with specialization on DevOps, Blockchain solutions, Big Data, Data Science and IBM Watson Service enablement strategies. Having more than 21 years of experience and certified on IBM Watson Services and IBM Cloud Platform and working as performance aspects, resiliency, deployment optimization, automation and security with special focus on product engineering, microservices, serverless, troubleshoot application, cloud native data strategy implementation and digitally transform customer businesses.

Work Experience

* Current Employer: Cloud Solution Architect in IBM India Software Lab, Bangalore since 19th Jan, 2016
	+ Project: GTD (Global Trade Digitization) since Nov, 2017 as Blockchain Solutions.
		- Driving devops adoption by recommending, implementing Monorepo, provisioning cross region Openshift kubernetes cluster using Terraform, application deployment pipeline using Jenkins, Ansible, Chef, Puppet, Argo Workfkow, Helm Chart, calico, deployment verification test using Helm Test and monitoring, alerting using Prometheus, Grafana, PagerDuty and Slack.
		- Designing highly available, resilient, fault-tolerant and scalable microservices using kafka, spring boot and no sql.
		- Architecture, design, installation and configuration of multi-stack Hyperledger Blockchain network consortium on Kubernetes cluster and automation of chaincode deployment to blockchain network.
		- Working closely with customer, dev and dev ops team member to resolve complex technical issues.
	+ Project: IBM Cloud G S I Lab initiative (Feb 2016 – Oct 2017) as Cloud Solutions Architect.
		- Driving IBM cloud adoption through partner deployment and utilization of IBM cloud platform and IBM Watson services by supporting them in pre-sales initiative, roadshow, enablement, hackathon, POC and reviewing designs/providing guidance in RFP responses and cloud SME on multiple assignment.
		- Helped Global Service Integrators partner to developed their Mobility and cognitive capabilities on IBM cloud platform using Mobile First Platform and Watson services like NLU, NLC, STT, TTS, Watson Assistant, Watson Studio, Discovery, Visual Recognition, Personality Insights and Tradeoff Analytics.
		- Have spent time with customers and partners to execute strategical engagement by leading deep technical architecture discussions with customer executives, Enterprise Architects, IT Management and Developers as they migrated the customers to IBM Cloud platform.
* Previous Employer: Senior System Analyst in Accenture India Pvt Ltd. from 18th Jul 11 to 11th Jan 16.
	+ Project: Contextual Big Data Asset for Retail, (May 2014 – Dec 2015)
		- Design and develop this application to provides Big-Data solution that enables rapid aggregation of data from multiple sources and delivers insights that gives user an immersive and valuable experience. It helps client to identify trends and changes in consumer behavior. Its recommendation engine helps consumers about other customer review.
		- Installed/configured Hadoop HA cluster and its ecosystem using cloudera manager distribution.
		- Created architecture stack blueprint for accessing data using Cassandra data model. Designed NoSQL column family, Cassandra tuning during migration from RDBMS database.
		- Design and developed dashboard which carries the predictive analysis approach for recommendation.
		- Configure pipeline for application deployment on AWS EC2 using CloudFormation, CodeDeploy, ECS.
	+ Project: Fraud Analysis on commercial cards, (May 2013 – Apr 2014)
		- Design and developed the application to monitor the likelihood of a given customer transaction is experiencing fraud and analyze transaction in near real time based on fraudulent patterns activity for data collected from various sources and also uses predictive analytic model to spot anomalies that suggests fraudulent behavior for offline dataset using customer past history with spending patterns and trends. It also generates recommendation for immediate action.
		- Design and architecture processing of streaming data using multinode cluster setup of kafka.
		- Write map reduce jobs to convert file format into CSV format and Hive UDF for data formatting.
		- Fraud identification runs analytic algorithm implementations like Bayesian, neural networks and support vector machines. It identifies fraud suspects and recommends for immediate action.
		- Implemented Statistical & Sentiment analysis using model generated through various algorithm in R
	+ Project: NextGen Log File Analytic (Jul 2012 - Apr 2013 )
		- Installed and configured multinode Hadoop cluster and its ecosystem using HortonWorks Ambari.
		- Implemented Data Integration capability of Hadoop eco-system.
		- Write a set of map reduce algorithm to bring data into a uniform format, extracting, validating and transforming for further processing.
		- Use pig and hive script to obtain analyzed information from all the logs, extract various reports.
		- Prepared Oozie workflows for all the formats and run end to end flow of self-contained Model which has a functionality of integrating the job for automating the Hadoop job process.
	+ Project: CloudSift (Jan 2012 – Jun 2012)
		- CloudShift is an initiative for accelerating adoption and standardizing usage of polyglot Open Source PaaS(es) which is built on top of cloud foundry and OpenShift and provide a diverse choice of programming languages, common frameworks and services.
		- Installed multi node private CFv2 components on Amazon AWS using bosh.
		- Created a custom service broker by extending CFv2 service broker API to access third party services.
		- Configured Loggregator with CFv2 to drain log file to Splunk to analyze the log files.
	+ Project: Porting Shopping cart application to Heroku Cloud Environment, (Jul 2011 – Dec 2011)
		- Design, developed and ported shopping cart reference application using spring mvc, spring security for authentication, spring webflow for shopping cart checkout flow, spring web services for validating commercial cards and invoice processing and transaction management using JPA objects.
		- Spring batch as cron job for uploading products and rate,
		- Configured Heroku addon memcache for code-decode framework.
		- Configured Heroku addon NewRelic for real time performance monitoring and Blitz for load testing.
		- Secured connectivity configuration between application and database addon on Heroku platform.
* Previous Employer: Project Manager in Polaris Software from 06th Sep, 2006 to 15th Jun, 2011.
	+ Project: Sanction Check & Global Interdict, Since Jul’2010 to Jun’2011
* Lead the design and development of in-memory loose text-matching services using RMI.
	+ - Designing and parsing of swift message for external application interfacing.
	+ Project: ICS (Integrated Clearing System) Jul’2008-Jun’2010.
		- Lead the design and development of inward clearing, outward clearing, inward return, outward return, in-house processing and ecs using spring and hibernate framework.
		- Design of generic upload program for CSV and flat file through stored procedure.
			* Project: CFX -Corporate Foreign Exchange, (Forex dealing System*)*. Jun’07 to Jun’08.
		- Design the flow of real time deals through trestle using MQ server, XML, XSLT and hibernate.
		- Implemented auto refresh of deals in user’s screens for the deal booked by any user through JMS.
		- Configured high availability of weblogic server using master/slave pattern.
	+ Project: FIRM (Front Office Interest Rate Derivatives Risk Monitor), Sep’06 - May’07.
		- Multi frame FX trader dashboard to capture risk across different country/ currency/ products segments for Swaps, bonds, FX and Futures using JSP and Struts Framework.
		- Design real time refresh of Reuter’s rate using database trigger, java stored procedure, RMI for yield curve and PNL computation for different products/yield curve and tenor.
* Previous Employer: Technical Associate in Tech Mahindra Ltd. from 29th May 06 to 1st Sep 06.
	+ Project: WSC (Web Self Care), Jun’2006 - Aug’2006.
		- Created SOAP web service for WSC to interact with customer portal to lower their operating costs.
		- Created detailed design documents using UML (Use case, Class, Sequence, and Component diagrams)
* Previous Employer: Software consultant in AMI Industries (India) Pvt. Ltd. from 6th May 2003 to 25th May 2006 and placed in Tata Consultancy Services Ltd. on deputation basis.
	+ Project: Web EN’RGISE (Enterprise Related Generalized Information System), May’03 – May’2006
		- Design and developed Web EN’RGISE, an ERP package to manage the online business transaction of any organization, especially those in the energy and utility sector.
		- Involved in the full life cycle of software design process, prototyping, interface implementation, testing, deployment and maintenance using strust framework, oracle and weblogic.
* Previous Employer: Software Engineer in Kanika Infocom Global Ltd. from 22-Feb-99 to 30-Apr-03.
	+ Project: Enterprise Courier Management System, Feb’1999 – April’2003.
		- Web application using java, jsp and servlet for data processing, accounts & finance Module.
		- Database design in SQL Server 2k for transaction handling using stored procedure.

Academic profile

* A.M.I.E in Electronic and Communication Engineering from The Institution of Engineers (India) in 2000
* B.Sc. Physics (Honours) from Calcutta University in 1995.

Certification

* IBM Certified Application Developer – Cloud Platform V1.
* IBM Certified Application Developer – Watson V3 Certification

 (SUDHIR KUMAR THAKUR)