RENGA **SHANMUGA|** 

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**Summary**

* **18 years** of Information Technology experience in all phases of SDLC using various tools and technologies.
* Certified **ITIL** Foundation, **ITSM** ISO/IEC 20000 & **ISEC** awareness professional.
* Expert in Design, and Implementation of highly scalable, highly available, **Cloud (IaaS, PaaS, and SaaS) services and solutions**.
* Expert in **Release Management Process (CI/CD),** Implementation knowledge on retail & commercial banking solutions and Commercial web applications.
* Hands on experience with **public cloud (MS Azure, Amazon Web Services, Rackspace) and Private Cloud (TD Bank)**
* Extensively worked on all latest **CI/CD** tools for release management (**TFS 2012/2013, Subversion, GITHUB, Git, Visual Source Safe and StarTeam**), continuous integration tools (**Octopus**, **Maven, Jenkins, Nexus and Microsoft-TFS, Chef**) and strong scripting knowledge in **Shell, Perl, Python, Ansible and PowerShell**.
* Lead the development of Infra architecture roadmaps using IAC model for enterprise cloud platforms in **Azure, AWS and OpenStack**. Driven "**Cloud First hybrid"** application implementation strategy for debit/credit chip card suite in TD Bank Enterprise Architect initiatives.
* Expert in configuring, executing and running **Docker/Kubernetes** containerized based apps in Azure and AWS environments. Used **Terraform** for configuring and deploying infrastructure developments. Configured infrastructure using Azure ARM Templates and AWS Cloud Formation.
* Expert in change management tools like **Service Now, HP Quality Center, BMC Remedy, IBM** clear quest and Expert in migrating/upgrading source code to **GitHub** from **TFS 2013**.
* Expert in Product and Project developments using **C#, ASP.NET, Core Java, PowerBuilder, MUMPS, Visual Basic, ASP, COM/DCOM, Scripting (Shell & PERL), Database (Oracle, MUMPS, Sybase & SQL-Server).**
* Expert in **Unix AIX/Linux** Administration, Windows Server administration, IIS Configuration and Deployment activities.
* Expert in writing **SQL, PL /SQL, Stored Procedures, Triggers using Oracle 11g/12g database**.
* Expert in **DevOps** for **deploying** **.Net** and **Java** based applications. Expert in 24/7 Support, Incident resolution & co-ordination with the development teams.
* Worked in **Waterfall**, **Iteration** and **Agile** SDLC methodologies.

**Highlights**

* Extensively worked on all latest CI/CD tools for release management (TFS 2012/2013, Subversion, GITHUB, Git, Visual Source Safe and StarTeam), continuous integration tools (Octopus, Maven, Jenkins, Nexus and Microsoft-TFS, Chef
* Proficient in Cloud platforms using MS Azure, AWS, OpenStack) and strong scripting knowledge in Shell, Perl, Python, Ansible and PowerShell.
* Expert in Release Management Process (CI/CD), Implementation knowledge on retail and commercial banking solutions and Commercial web applications.
* Self-Starter. Good Team Player and mentor for the junior resources.

**Accomplishments**

* Improved performance of the application scalable to a maximum number of concurrent users.
* Won Best internal project award from the TD Bank.
* The Ultimate Contributor for Migrating applications from TFS to GitHub in GEP Inc.

**Skills**

**Languages**: C#, ASP.NET, Java, JavaScript, AngularJS, BootStrap PowerBuilder, VB, COM/DCOM, ASP, Shell/PERL/POWERSHELL Scripting/Ansible, SQL, PL/SQL.

**Databases**: Relational (Oracle 11i /12g, Sybase 12.5, MS SQL Server 2008/2012) and Hierarchial (GT.m).

**Cloud Technologies**: **Rackspace** (PowerShell, YAML, JSON, SALT, Cloudify2.5, StormUI, Splunk),

**AWS** (IAM, EC2, S3, RDS, VPC, Kinesis, Docker, Code Deploy, OpsWorks, CloudWatch, CloudTrail),

**MS Azure** (Resource groups, Storage, Virtual Machines, Container Instances, Function/Logic apps, Cloud services, Service Fabric Clusters Management, Kubernetes/Docker containers, Container registries, CDN, API Management Services, Other services)

**Build & Release Control Tools**: MS Project, MS Visio, MS Visual Source Safe, StarTeam, ANT, Sub version, Jenkins, GITHUB, GitLab, TFS 2010/2012/2013, Nexus, Chef, Octopus, AKAMAI, NewRelic, Dynatrace, ELK

**Tools:** Crystal Reports, Informatica, HP Quality Center, Install Shield, BMC – Remedy

**Plug-in Tools:** Eclipse, TOAD, WinSCP 4.2.4, putty

**Web Servers:** IIS5.0/7.0/8.0, Tomcat 2.0/2.2

**Operating Systems:** Windows 2008/2012 R2, UNIX (AIX & LINUX).

Education and Certification

**Master of Computer** **Science** 1999 Madurai Kamaraj University Tamilnadu, INDIA

**Bachelor** **of** **Science**  1994 Manonmaniam Sundaranar university Tamilnadu, INDIA

**ITIL** - Foundation

**ITSM** - Foundation ISO/IEC 20000

**Information** Security awareness

 **Professional Experience**

**Infrastructure Associate – L2 Oct 2020 till Date**

**Publicis Sapient Chicago, IL**

**Cients : United Health Care and Medtronic**

Responsibilities:

* Defining and Setting up CI/CD pipeline strategy for the project using recommended devops tools
* Creating automated deployment using Infrastructure as Code tools like Terraform and Ansible playbooks.
* Configuring Deployments tools and deploy Kubernetes/docker based container applications in Azure and On-Premises virtual machines.
* Implement detail logging mechanism for Network, applications and operational intelligence for the project and easy-to-use features such as histograms, line graphs, pie charts, heat maps, and built-in geospatial support.
* Providing custom dashboard for monitoring the entire geographical regions.
* Automating CI/CD pipelines using PowerShell/Shell/Python for easier integrations and configured test strategies using Junit/Cucumber.
* Expert in configuring and do code smells tools using SonarQube and Fortify.
* Expert in building and management of robust API clusters to support micro services architecture.
* Design and implement cloud and bare metal Docker/Kubernetes deployments and Communicate with multiple stakeholders and team members in a participatory environment.
* Knowledge in HIPAA and Data protection compliances.

Environment: **MS Azure** (Resource groups, VNET, Storage, Virtual Machines, Load balancers, Traffic Manager, Service Fabric Clusters Management, Kubernetes/Docker containers, Container registries, Content Delivery Management (CDN), API Management Services).

**Languages:** Java, Java spring boot, Node.js, C#.Net, PowerShell, Shell

**Other tools**: Jenkins, TeamCity, Octopus Deploy, New Relic, Sonar Cloud, SonarQube, Kibana, Dynatrace, GitLab, Bitbucket, Gradle, Ansible, Confluence, JIRA, Junit, Cucumber

**DevOps Lead/Architect Jun 2018 to Oct 2020**

[**GEP Inc**](http://www.gep.com) **Clark, NJ**

GEP offers the perfect blend of strategic and advisory services, pace-setting technology and managed services, with a laser focus on procurement and supply chain transformation to help clients achieve their business goals.

Responsibilities:

* Architecting and implementing IoT (Internet of Things) to automate build and deployment tasks.
* Setting up Microsoft Azure DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. Visual Studio Online, GitHub, Octopus, Sonar Cloud and New Relic.
* Integrating API calls using Shell/PowerShell/Python scripts for automating builds and deployments.
* Technical and admin support with external technical teams and outsourced provider environments in the cloud and on-premises.
* Configured infrastructure and deployment using IAC tool terraform in Azure cloud environment.
* Monitoring Service Fabric clusters health from development to production lines.
* Delivery, support and maintenance of all global scope operational services as part of the day-to-day management of the global infrastructure and applications.
* Configured storage, containers (Microservices/API Management), Virtual Machines, load balancers in a multi containerized azure environment.
* Integrating Code analysis and reporting tool with Git sourcing tools.
* Monitoring azure containers health using New Relic and reporting details through API calls.

Environment: **MS Azure** (Resource groups, Storage, Virtual Machines, Load balancers, Traffic Manager, Function/Logic apps, Cloud services, Service Fabric Clusters Management, Kubernetes/Docker containers, Container registries, Content Delivery Management(CDN), API Management Services).

**Other tools**: Octopus Deploy, NewRelic, Sonar Cloud, SonarQube, OAuth2.0, PagerDuty and Site 24x7.

**M/Cache Development and Operations Sep 2017 to May 2018**

[**Client: OPWDD**](https://opwdd.ny.gov/)  **Albany, NY**

The New York State Office for People with Developmental Disabilities (OPWDD) is responsible for coordinating services for New Yorkers with developmental disabilities, including intellectual disabilities, cerebral palsy, Down syndrome, autism spectrum disorders, Prader-Willi syndrome and other neurological impairments. It provides services directly and through a network of approximately 500 nonprofit service providing agencies, with about 80 percent of services provided by the private nonprofits and 20 percent provided by state-run services.

Responsibilities:

* AWS EC1 Instance creation for Application and Web servers. Configuring websites from staging to production environments.
* M/Cache extract and report developments from M/Cache Creative Health Care system.
* Migrations of existing developments from Staging to Production on a new AWS ECS environment.
* Worked with business team to implement new ideas on older systems to an enriched AWS environment.
* Deploy the release to pre-release environments using the preliminary release notes. Refine and test the deployment continuously through the promotion and roll-back of environments as needed.
* Create and maintain documentation on processes, procedures, and policies related to above tasks. Ensure that documentation is current and comprehensive.
* Work collaboratively with Developers and advise the Manager of Application Operations on improvements and efficiencies.

Environment: EC2, EBS, ELB, S3, SQS, ElasticIP, Route 53, IAM, Gateways, VPCs, CloudWatch,

CloudFront, CloudTrail, Chef, M/Cache

**Cloud Architect & Integration Engineer June 2015 to Aug 2017**

**Client: TCS >** [**TD Bank**](http://www.td.com) **Mount Laurel, NJ**

**TD Bank**, America's Most Convenient Bank, is one of the 10 largest banks in the U.S., providing more than 9 million customers with a full range of retail, small business and commercial banking products and services at more than 1,200 convenient locations.

**Responsibilities:**

* Good understanding of network, security, VPN aspects related to Rackspace and AWS cloud.
* Integration in designing, building and maintaining an automated CI/CD cloud build & release environment with PowerShell/Shell Scripting.
* Worked with technical leads from infrastructure domains like Compute, Storage, and Network etc. to develop a comprehensive technical architecture to support the multi-year agenda for cloud adoption. Architecture deliverable may also include development of integrated technology stacks designed for low cost-efficient delivery of cloud services.
* Hands on experience in implementing private/public cloud solution using Orchestration and automation tools.
* Expertise in using API Calls for launching AWS Docker-enabled applications, query the complete state of your cluster, and access many familiar features like security groups, Elastic Load Balancing, EBS volumes, and IAM roles.
* Using Amazon EC2 Container Service for launching containers on EC2 instances. Clusters run in a VPC allowing applications to use VPC security groups and network ACLs and used Amazon ECS to build highly secure and reliable applications.
* Configured S3 buckets and EFS storages for EC2 app and web instances.
* Created RDS for oracle database and applied VPC to establish connections with EC2 instances.
* Data Center architecture & design experience for large customer environments and Familiarity with networking & security solutions like routing, switching, Firewalls etc.
* Work collaboratively with other teams and supporting continuous releases to various environments.
* Build and execute on the mitigation strategies with Docker tool for release.
* Created Chef servers to use the Chef DK for automating CI/CD deployments in TD staging and production environments.

Environment: SQL Server, SSIS/SSRS, POWERSHELL, VBSCRIPT, YAML, JSON, SALT, Cloudify2.5,Chef, StormUI, Splunk, Nexus, BMC Remedy, JIRA, Salesforce, AWS, Javascript, AngularJS, BootStrap

**Client: MindTech > UL Labs, NJ –USA Jan 2015 to May 2015**

**Role: TFS Build & Release Architect**

Responsibilities:

* Involved in defining TFS infrastructure which include branching, merging, versioning and promoting DevOps CI/CD TFS best practices.
* Customizing TFS process templates to meet project needs.
* Worked with IT development staff, during the development, testing and launch phases of the SDLC to configure and release application code into QA, staging and production environments.
* Setup CI/CD Nightly build for each project configured in TFS.
* Setup code check in policy for managing and executing builds in CI/CD staging and production environments.
* Create and maintain build scripts and configurations for Continuous integration and Deployments.
* Hosted web and application deployments on an Microsoft Azure environments.
* Work collaboratively with other teams and supporting continuous releases to various environments.
* Customizing and configuring Microsoft Test Manager for testing activities.
* DevOps experience in maintaining and working with .net technologies, IIS servers, and Windows environments.
* Experience in designing, building and maintaining an CI/CD automated build & release environment with Good PowerShell Scripting skills.
* Creating data packages and modeling data integration flows with SQL Server Integration Services (SSIS) from various data sources
* Chained multiple WCF/Web projects in a single build definition in CI/CD environments.

Environment: C#, ASP.NET 4.0, XML Transformations, SQL Server, SSIS/SSRS, TFS2012/TFS2013, POWERSHELL, VBSCRIPT, MS Azure

**Client: Deloitte > Department of Human Services, Pittsburgh, PA –USA Nov 2012 to Dec 2014**

**Role: TFS2010/2012 Build & Release Lead**

Responsibilities:

* Develop and Maintain the release schedule for all core services and ensure alignment across key partners in DevOps.
* Identify release scope and ensure release packages compatibilities with each other.
* Identify and track key metrics.
* Communicate schedule, activities and status.
* Manage multiple releases with CI/CD simultaneously.
* Track and communicate release issues & risks.
* Build and execute on the mitigation strategies in an CI/CD environment.
* Help resolve critical cross-group technical or project issues as they impact the release in DevOps.
* Create release documentation and communication.
* Ensure all Release documentation is finalized at the release sign-off.
* Identify and implement improvements in the current DevOps release process.
* Build effective relationships with engineering leaders and key stakeholders.
* Interact with other organizations and functional teams to identify and coordinate dependencies between systems and to determine release requirements in pre/in/post release phases.
* Interaction with Service Management to facilitate knowledge transfer and provide early life support. Provide release documentation (release notes, test summary report, known errors) enable service management to assess risk in production and ensure that the release process complies with all certifications.
* Interaction with Quality Engineering team to ensure all the services & components are signed off on time and ready for CM(CI/CD) ensure that the current state of the release items is categorized and accurate (test complete, test incomplete, automation verified, etc)
* Interaction with Production Deployment Operations (DevOps) to ensure production deployment to all data centers happens according to the release schedule and the production deployment plan manage mitigations and/or backup plan in case of issues.
* Interaction with Configuration management team to ensure all the packages for the signed off services & components are created and ready for handoff to Production Deployment Operations (DevOps).
* Extensively used source management tool in Visual Source Safe, Microsoft TFS2010/2012 and MS Build Tools.
* Strong DevOps working knowledge on PowerShell scripting and development skills in MVC, WCF.
* Good in Capacity planning, Incident monitoring and Integrating new tools/technologies for build and release management.
* Hosted web and application deployments on a Microsoft Azure environment.
* Hands on DevOps knowledge and expertise in latest VS2010/VS2012 and Biztalk deployment activities.
* Easily adapt to newer technologies as and when required. Having knowledge on Nexus (CI//CD) repository Tool.
* Creating data packages and modeling data integration flows with SQL Server Integration Services (SSIS) from various data sources.
* Building the data integration flows in an efficient way avoid duplication of code and allow easy updates in the future.
* Querying Microsoft SQL Server 2008 / 2008 R2 / 2012
* Expert in configuring and deploying ETL based applications. Used extensively Informatica, DataStage and Other ETL tools.
* Handled 20+servers for deployment and Release activities from Scratch to Go-Live.

Environment: C#, ASP.NET 4.0, Oracle 12g, TFS2010/TFS2012, POWERSHELL, VBSCRIPT, ORSYP Batch Scheduler, MS Azure

**Company : IBM INDIA**

**Client: ING BANK, INDIA** **May2011 to Oct 2012**

**Role: Senior Specialist - Build & Release**

Responsibilities:

* 24/7 Banking Product and application support, DevOps, Build & Release management activities in ING Bank.
* Implement and maintain the Change Management infrastructure including source repository management, tool/environment troubleshooting, upgrades, migrations, and disaster recovery.
* Design and implement improvements to Change Management practices.
* Deploy software builds. Improve and streamline build and build processes using change and release management tools.
* Track and package all components of the software release that comprise a full working system as the end product. These items may include build deliverables (code), data, data structure, content, software packages, software configuration files and instructions, etc. Collate this information to create a comprehensive set of Release Notes.
* Deploy the release to pre-release environments using the preliminary release notes. Refine and test the deployment continuously through the promotion and roll-back of environments as needed.
* Create and maintain documentation on processes, procedures, and policies related to above tasks. Ensure that documentation is current and comprehensive.
* Work collaboratively with Developers and advise the Manager of Application Operations (DevOps) on improvements and efficiencies.
* Automation using K-Shell and Perl/Python Scripting.
* Strong knowledge in Shell/PERL scripts is used to simplify repeated DevOps daily tasks.
* Responsible for merging patch codes in releases, maintaining the integration systems and source code repositories.
* Day-to-day DevOps application support activities for ING Bank.

Environment: GT.m DB, Perl/K-Shell Scripting, AIX/Linux Administration, BMC Remedy,

**Computer Sciences Corporation,VA** **July 2004 to April 2011**

**Role: Lead - Application Development**

**Client: FIDELITY INFORMATION SERVICES INC -USA**

**Project Engagements: - Core Banking [Profile Product]**

**Primary responsibilities include:**

* FIS Core Banking product- Profile Application Development, Design and Maintenance.
* AIX/LINUX Administration, Profile Build & Release Management.
* GT.M Database Administration of Profile servers.
* Data warehousing extract designer for the banking analysis reporting tool.
* Excellent working knowledge on PL/SQLSQL queries & joins, Query fine tuning.
* Functional knowledge on Payment clearing systems like BACS, CHAPS,FPS and Savings/Loans & Card Processing.
* Provided BAU (Business-As-Usual) 24/7 profile development support and project enhancements for ING-UK and ING-NL Banks.
* Primarily responsible for involving in all activities of Application Development and Maintenance.
* Coordinating with Onsite Team for requirement, resolution of issues and development progress.
* Analyzing and recommending solutions to meet business, functional and high-level technical requirements as subject matter expert.
* Determining programming approach, tools, and techniques to best meet business requirements.
* Program Design - Mastery of programming tasks for complex applications and has provided leadership in all tasks and activities required to complete a programming design phase.
* Programming - Has played a lead role in all tasks and activities required to complete programming tasks for complex applications and experience with full system implementations.
* Managing process/complex problem resolution and recommending best practices for production-level code support, troubleshooting and maintenance.
* Program Documentation - Demonstrated ability to translate detailed and complicated technical ideas into easily understood documents.
* Program Testing - Skilled at testing between programs for an entire system-demonstrated use of terminal debugging systems and inter program/interlibrary text editing.
* Creating test plans and organizing code test reviews including tracking and resolution of complex defects.
* Ensuring code reviews are conducted and quality standards are achieved for changes, enhancements, standards compliance and systems interoperability.
* Preparing and packaging production-ready code modules to staging with proper communications to QC, developers, and management.
* Mentoring and coaching peers, colleagues and less experienced developers.

**Project Details: PROFILE (Core Banking Software)**

**Description:** Fidelity Profile is an on-line, real time retail banking system, or “transaction processing engine.” It provides integrated customer functions, teller functions, account management functions (deposits & loans), funds transfers, back office functions, and so forth. It is platform independent: It can run on VAX/VMS, UNIX, Linux, and others.

Fidelity Profile for Windows is the GUI client to Profile, focused on providing branch-oriented functionality. It runs on Windows NT and on Windows desktops. The primary goals of this offshore development center (ODC) is to provide software development services at a lower cost than existing onshore capability, while at the same time increasing both productivity and quality. The objective for the offshore ODC to be a functional organization on its own with capabilities to do Business analysis, analyze market trends, suggest improvements\changes, analyze impact and estimate, carry out software design, create detailed designs and development, Test and take them all the way through packaging and implementation. The ODC would become autonomous in due course of time with ability to solve vast majority of its problems without outside assistance.

**Enhancements done during the tenure:**

* Password Validation Module for ALLSTATE Bank
* Data Base Independent Enhancements (Profile Versions from 6.4 to 7.2)
* Conversion of old MUMPS project to a newer PSL Project, Database Independent to Oracle from MUMPS database. Front end application changed to Profile Direct (Java Web Client) from PowerBuilder software’s (Profile for Windows).
* Involved in the conversion of system areas (Card Management, Transaction processing, Agents and Commission processing).
* Patriot Act Section 326
* John Deere Profile Customizations and Credit Enhancements
* FEMA USA Regulatory
* Homeowners Protection Act (HOPA)
* Payment Systems (Outgoing, Incoming)
* Savings account Upgrade

Environment: Java, PowerBuilder10.5, MUMPS, Oracle 9i, PL/SQL, StarTeam, Extra! Personal Client 32 bit on Windows workstation, Sanchez Application Studio, Shell Scripting

**Previous Engagements**

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| --- | --- | --- |
| **Organization** | **Duration** | **Designation** |
| Brainsoft Consultant | Feb 2004 to June 2004 | Software Consultant |
| Point-of-View Communications | Sep 2003 to Feb 2004 | Software Consultant |
| Indian Institute of Science | Mar 2003 to Aug 2003 | Project Assistant |
| Select Softwares (India) Pvt. Ltd. | Aug 2000 to Dec 2002 | Software Engineer |