**Muthuselvan I. Kangeya**

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**Professional Summary:**

DevOps architect and System Engineering with 15 years of experience. Programming, Support, Debugging and Administration in distributed environments such as UNIX, Linux, Windows across a wide range of products.

Architecture, Design and deployment of solutions using bare solutions, VMWare and Amazon Web Services (AWS). Experience with most layers of AWS offerings and integration, and migration of existing metal solutions into virtualized hosting environments.

Management and design of integrated build and deployment pipelines using continuous integration (CI) and continuous delivery (CD) workflows, SVN, Git, Jira, Bitbucket, Bamboo, Jenkins, GoCD, Docker, Artifactory, Nexus, Ansible, Puppet.

Exceptional communication skills and business acumen to convey complex technical and business process issues to multiple in formal presentations, desk side, and across long lines.

**Exposure Summary:**

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| Operating System | CentOS 6.x & 7.x, Debian, Ubuntu, CoreOS |
| Virtualization | VMware vSphere - 6 & 7 |
| SCM Tools | Git (GitLab, GitHub), SVN, Perforce and ClearCase |
| Build Tools | Ant, Maven, Gradle and make (cmake & gnumake) |
| Repository Manager | Artifactory, Nexus |
| Packaging Tools | RPM, makemsi, and System V Package |
| Public Cloud | Amazon Web Services (AWS), Microsoft Azure  |
| Programming Language | Bash Shell Scripting, Perl, Python, NodeJS, PowerShell |
| Networking | TCP-IP, Network Security, VPN, DNS, Routing,  |
| RDBMS | MySQL, Postgres, Apache Cassandra |
| Monitoring | Grafana, Nagios, Zabbix |
| Web Server | Apache httpd, Apache Tomcat, JBoss, WebLogic |
| DevOps Tools | Jenkins, GoCD, ElectricCommander, Bamboo, Puppet, Ansible, Kubernetes, Terraform, Chef and Docker |
| Server Infrastructure | NIS, NFS, Linux/Unix Security, LVM |
| Storage and backup | Compellent and Commvault |
| Artifact Repositories | Maven, npm, rpm, docker and binary (Artifactory) |
| Code Analysis | SonarQube, CodeCollabrator, Fortify |
| Ticketing/Bug Tools | Jira, Extraview, JTrac and Redmine |

**Educational Qualifications:**

**Master of Science** - Information Technology

Bharathidasan University, Tiruchirappalli, India

## Certifications:

**AWS Certified Solutions Architect -** Associate certificate (Validation Number 12PQLRWDNN4EQ358 – Dec 29, 2021)

**ITIL® 2011 Foundation** Certification (Dec’ 2012)

**Certified Ethical Hacker** Certification (Nov’ 2014)

**EC-Council Certified Security Analyst** (Jan’ 2015)

**Special Milestone:**

**Award recipient:** I am a recipient of "ON-THE-SPOT AWARD" accorded by Verizon Data Services India Pvt. Ltd. Chennai, on account of my exemplary accomplishment in Configuration Management.

**Appreciated Employee:** I have been appreciated by Senior Management of Verizon Communication for successfully completing the migration activities called “Project North” for “Frontier Communication”. *(Appreciation letter attached in the last page)*

**Professional Experience:**

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| Working at Emergent Holdings | Glassdoor | **Emergent Holdings, Inc. Lansing, MI 48933, USA. (Implementation Partner: HCL America, Inc)**Oct 2019 to till nowRole:  **Cloud Architect**Environment: AWS, Azure, GitHub, GitLab, Jenkins, VMWare, CentOS, RHEL, Amazon Linux 2, Windows 2019, SaltStack, StackStorm, ECS, ECR Artifactory, Nessus, Metasploit on Kali Linux, Apache Kafka, Apache HTTPD, Tomcat and Kubernetes, MFA (Cisco Duo Security), AWS CI/CD and Azure CI/CD |

* Symphony (Health Management) application environment migration from on-premises to AWS Cloud
* Cloud Infrastructure Management:
	+ Terraform and AWC CLI
	+ Cloud Custodian
	+ Grafana and Prometheus
	+ StackStorm
* AWS Networking:
	+ Setting-up the private network including VPC, Subnet, Subnet routing, transit gateways, transit gateway routing and Route53, BIG-IP, F5 Load Balancer and Web Application Firewall (WAF)
* AWS Compute:
	+ Elastic Compute Cloud (EC2), Elastic Container Service (ECS) and Elastic Kubernetes Service (EKS).
	+ AWS WorkSpaces
	+ AWS Directory Service [Simple Active Directory]
* AWS Storage:
	+ S3, EFS
* AWS RDS / DB:
	+ SQL Server, PostgreSQL, DynamoDB and ElastiCatch
* AWS Notification
	+ SNS, SES
* Logging:
	+ AWS CloudWatch, Cloud Trial, Splunk and RSyslog
* Container Solutions:
	+ Docker on VMWare environment
	+ Kubernetes on VMWare environment
	+ AWS ECS, AWS EKS and Azure Kubernetes Service (AKS)
* VDI environment on Azure
	+ Azure Active Directory (Azure AD)
	+ Azure Virtual Machines (Azure VMs)
	+ Microsoft subscription
* Source Code Management:
	+ GitHub Enterprise 2.9 and 3.0
	+ GitLab CE and EE
* CI/CD and Workflow
	+ Jenkins and GitLab CI/CD, GitHub Actions, Packages
	+ Elastic Container Registry (ECR)
	+ AWS CI/CD
	+ Azure CI/CD
* AWS Lambda:
	+ NLB routing using Lambda
	+ EC2 Snapshot backup, DynamoDB and RDS Backup
* OS Patching:
	+ Nessus scanning and Patching
* Cisco Duo Security for AWS WorkSpaces MFA
* Workflow Management:
* StackStorm
* Terraform and Ansible
* Log Management:
* Rsyslog Server, CloudWatch and CloudTrail

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|  | **The Goldman Sachs Group, Inc. New York, USA. (Implementation Partner: Sapient Consulting)**Jan 2018 to Dec 2018Role:  **Contingent (DevOps Engineer) [Manager – Technology at Sapient Consulting]**Environment: AWS, SVN, GitLab, Jenkins, VMWare, RHEL , Artifactory, SonarQube, Fortify, Apache Kafka, Apache HTTPD, Tomcat and Kubernetes |

* Release Management
* Design and Implementation of Continues Integration and Continues Delivery using Jenkins
* Application migration from Physical server to VM
* Application migration from RHEL to CloudLinux
* Security and vulnerability analyze
* AWS: Managing EC-2 instance, Security Group, VPC and Application load balancing
* Containerization using Kubernetes for SIT and UAT environment
* Apache Kafka installation, configuration and administration.
* Developer’s build environment using Kubernetes containers.
* Nagios implementation for monitoring Server, Network & Application (process)
* Application logs/Network logs monitoring using Splunk
* Web server security analysis using Signal Sciences
* Job scheduling and monitoring using Autosys
* Source code migration from SVN to GitLab
* GitLab workflow implementation
* On-shore and Off-shore coordination
* Enabled Agile, DevOps and SCRUM

**Ernst & Young , Alpharetta, GA (Implementation Partner: Hexaware/Rackspace)**

Aug 2017 – Dec 2017

Role: **DevOps Architect**

Environment: GitHub Enterprises, Jenkins, VMWare, AWS, Azure, CentOS, Pythons

* GitHub Enterprises server deployment on Azure
* GitHub Enterprises server load balancing (primary/secondary failover)
* Deployed GitHub Enterprises backup server
* Designed the development workflow in GitHub
* Developer’s build environment using Kubernetes containers.
* SCM Planning – Branching and Labeling strategy and Release management
* Focus on application/systems performance and capacity management

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\dell logo.png | **Dell International Services India Pvt. Ltd., Chennai, India.**May 2015 – Jun 2017Role: **Principal Engineer (DevOps Architect)**Environment: Perforce, Bitbucket, Jenkins, ElectricCommander, Docker, Ansible, Puppet, Chef, VMWare, AWS, OpenStack, RHEL/CentOS, Artifactory, Nagios, Python |

Managed six members of DevOps team, and Designed and Deployed CI/CD Pipeline. Linux distributed environment and configuration management with proprietary and open-source tools. Linux server installation, configuration and administration

* Linux VM build, deployment and Patching using SaltStack
* Enabled Agile DevOps development and SCRUM for CI/CD
* Network Operating System such as FTOS (Force10 OS) and NGOS (Next Generation OS) build and deployment. RPM and DEB package management and Patch management.
* Linux and FreeBSD Kernel build for Network Operating System
* Enabled *Build as a Service* for Dell Active Fabric Manager (AFM)
* ElectricCommander (CI/CD) build node migrated from on-premises to AWS with auto scaling
* Build and deployment Pipe line using GoCD and Jenkins
* Infrastructure as a Service (IaaS) implemented at Networking Lab.
* Dell Active Fabric Manager (AFM) [UAT Environment] application migrated from on-premises to AWS
* AWS EC-2 instance creation using terraform (Infrastructure as Code)
* Apache Cassandra Database installation, configuration and administration
* Setup DevOps workflow for AngularJS, NodeJS, bower, npm; Codebase used in the automated deployment in VM
* Production support for AngularJS and NodeJS Applications (Enabled CI & CD pipeline using Jenkins)
* Microservice enabled for activating subscription and environment configuration
* Proof of Concept: Network Operating system development using CoreOS with Kubernetes and Docker
* Design, integration and management of Amazon Web Services cloud solutions. Provisioning of EC2 instances, built via puppet, and integrated into local area offices in 2-time zones. Amazon RDS, VPC construction, Security Group policies, IAM, Route 53, CloudFormation, S3, Glacier, OpsWorks
* Focus on application/systems performance and capacity management
* Monitoring IT infrastructure using Nagios and Zabbix

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\intellect.jpg | **Intellect Design Arena Limited, Chennai, India.**Aug 2014 – Apr 2015Role:  **Executive Project Manager (DevOps Architect)**Environment: SVN, GitLab, Jenkins, Docker, Ansible, VMWare, AWS, Azure, CentOS, Artifactory, Nagios, SonarQube, Fortify, Zenmap, Metasploit, Python |

Managed eighteen members of DevOps team for Core Banking project. Designed and Deployed CI/CD Pipeline. Code review, Security and Vulnerability analysis are integrated with CI tools. UNIX and Linux administration

* Cost reduction strategies. Server and service consolidation, migration of legacy systems into virtualized environments
* Worked with various portfolio project manager for Core Banking product integration.
* Continues build and deployment at various middleware environment such as Tomcat, JBoss, WebLogic and WebSphere.
* Deployment automation using Python at various middleware environment.
* Banking .net applications are moved to Azure and MS-SQL server migrated to Azure SQL Database
* Introduced Amazon Web Serviced (AWS) and migrated testing environment such as SIT / UAT from on-premises to AWS.
* Preparing and performing Configuration audit and publish the audit reports to project team.
* Monthly newsletter publishes to portfolio wide.
* Enabled Agile DevOps development and SCRUM for CI/CD

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\bofa.png | **BA Continuum India Pvt. Ltd., Chennai, India.**Oct 2011 – Aug 2014Role:  **Lead Analyst (Architect – Configuration Management)**Environment: Perforce, ClearCase, Git, Jenkins, GoCD, VMWare, RHEL 6, Sun Solaris 9, Artifactory, Splunk, Nagios, SonarQube, Fortify, WebLogic, WebSphere, Python |

Managed twelve members of CM Team and provided 24/7 support.

* Design and support of business infrastructure. Day to day support of entire IT product lines.
* New product prototyping and evaluation
* Focus on application/systems performance and capacity management
* Continues build and deployment at various middleware environment such as WebLogic and WebSphere.
* WebSphere portal implementation for payment gateway dashboard
* Build jobs migration from CruiseControl to GoCD
* Headed up team responsible for next generation performance engineering best practices, and provided consulting expertise for existing product teams on how to integrate performance into development life cycles
* Setup and administration of log mining processes utilizing Splunk
* Tools integration and dashboard using python

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\vz.jpg | **Verizon Data Services India Pvt. Ltd., Chennai, India.**Jul 2007 – Oct 2011Role:  **Systems Engineer (Architect – Configuration Management)**Environment: ClearCase, Git, Jenkins, RHEL 6, Sun Solaris 9, Artifactory, Nagios, SonarQube, Fortify, Apache HTTP, Tomcat, WebLogic, Python, Perl |

Build and managed to eight members of Configuration Management and Engineering Management for VSO portfolio. One of the key players for “Project North” Verizon - Frontier transaction. And appreciated by Senior Management of Verizon Communication for successfully completing the Verizon - Frontier transaction. Sun Solaris 8/9/10 administration

* Enabled various test environment such as:
	+ DIT – Development Integration Testing
	+ SIT – System Integration Testing
* WebLogic portal enabled for Agent and client management for wireline business
* Designed and Deployed the Maven project and managing artifact by using Nexus
* Designed and Deployed Continues Integration (CI) build and deployment
* Enabled Vertical and Horizontal WebLogic Cluster for all project
* Enabled load balancing (round robin algorithm) using Apache HTTP - mod\_jk
* Implemented branching strategy in ClearCase for managing parallel release
* Deployment automation using Jenkins (WebLogic plug-in)
* Provided SDLC support

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\comnet.jpg | **India Comnet International Pvt. Ltd., Chennai, India.**Mar 2006 – Jun 2007Role:  **Sr. Engineer - SCM**Environment: ClearCase, SVN, Redhat, Sun Solaris 8, SonarQube, Apache HTTP, Tomcat |

* Managed and administration of various SCM tools, such as ClearCase, CVS and SVN.
* IDE solution for java projects and integrated with ClearCase and ClearQuest plug-in’s.
* Build and Deployment automation using Shell and Perl script
* Implemented parallel build with mixed environment
* Windows 2000 Server and Active Directory administration
* Sun Solaris 8 and RHEL5 administration
* OpenLDAP, DNS, NAS

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\satyam.jpg | **Satyam Computer Services Limited, Bangalore, India.**Sep 2005 – Feb 2006Role:  **Sr. Software Engineer**Environment: ClearCase, RHEL 6, Sun Solaris 9, make |

* Build automation using shell script
* Performed daily build and deployment
* SCMP and Release management document preparation

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| C:\Users\Muthuselvan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\amadeus.jpg | **Amadeus India Pvt. Ltd., Chennai, India.**Apr 2001 – Sep 2005Role:  **Customer Support Engineer**Environment: Redhat Linux, Windows 2000 |

* Windows Server Administration:
	+ Windows 2000 server Administration
	+ IBM Communication Server Administration
	+ Microsoft SNA Server Administration
	+ VPN Server/Client/User Administration
* Network Administration:
	+ Designed and Implemented X.25 over TCP/IP circuits
	+ Implemented X.25 data communication Network
	+ Implemented X.28 data communication Dial-up Network

