**Chenthil Kumar Vanamamalai , Green Card Holder,** [**ckv.tvm@gmail.com**](mailto:ckv.tvm@gmail.com)**, 757-985-9559**

**Summary:**

* 20+ years of experience on Infrastructure development, maintenance and support of enterprise applications.
* Worked as an **OpenShift consultant for the last 7 years** building DevOps (CI/CD) for application and infrastructure.
* Supported application teams across the enterprise on delivering container microservices on OpenShift.
* Delivered a modern data pipeline and operational intelligence platform infrastructure hosted in RedHat OpenShift container platform.

**Technical Skills:**

* IBM Red Hat OpenShift - CLI commands, YAML.
* Kubernetes, Docker
* Open Source: ArgoCD, Tekton, Jenkins, Drools, Debezium, Process automation manager, Decision manager, Quarkus, Service mesh, Serverless, Chaos mesh, JHipster (Entando), Maven, Kafka AMQ, Consul, Operators, Keycloak SSO, Helm chart, Elasticsearch, Redis, Splunk, Grafana, Prometheus.
* CyberArk, Hashicorp vault
* Storage: NFS, Trident, PV/PVC
* Data Task Orchestration - Airflow
* Crunchy (Postgres cluster & databases), Pgadmin.
* REST API, AWS, Terraform, Protegrity, SQL
* Java spring boot, Golang , Python, .Net, SharePoint, Angular, NodeJS, React, JavaScript.
* SSIS, Informatica, Teradata, Tableau
* IBM Mainframe Cobol, Assembler, DB2, IMS DB/DC, JCL, CICS, TSO/ISPF, Expeditor, File Aid
* Solution Architecture / High level design / Detailed technical design.

**Education:**

* Bachelor’s degree in Technology from University of Kerala, India - 2002

**Certifications:**

* Completed Training in Kubernetes Administration and Red Hat OpenShift.
* Certified in AWS Solutions Architect Associate.
* Certified scrum master.
* Certified in Blockchain from IBM
* Certified in Data Science from Harvard University
* Certified in Transact SQL from Microsoft
* Currently Attending Python programming boot camp Pro-2023.
* Awarded for the Best Automation tool innovation from Infosys tools group.

**Professional Experience:**

**Anthem BCBS (Elevance), Virginia Beach, VA Since Dec/2017 – till todate**

**OpenShift lead consultant - Data Management and Encounters IT team**

* Working as a OpenShift lead engineer developing container applications in OpenShift & Kubernetes platform, developing DevOps pipeline, services, live streaming platform, microservices via Open-Source for a health insurance company based in USA.
* Worked as part of enterprise openshift team on defining the architecture road maps and templates.
* Worked with storage team on provisioning the persistent volume claims for both cluster master/worker nodes and application microservices
* Developed container-based applications in IBM Red hat OpenShift platform.
* Migrated the applications from OCP 3.X to 4.X as part of the cluster upgrade project.
* Supported the backup and recovery procedures for OCP prod and non prod clusters.
* Developed platform UI/UX using Angular, React and NodeJS modules via CI/CD pipeline on OpenShift
* Conducted POC on MongoDB infrastructure set up on OpenShift platform.
* Assisted the application development on troubleshooting networking router issues related to DNS, load balancers, ports, service ip’s, nodeport
* Developed Jenkins pipeline in Golang and enabled CI/CD for on prem and cloud applications on OpenShift.
* Developed DevOps pipeline involving bitbucket, webhook, OpenShift and Azure devops
* Implemented Apache Airflow in OpenShift with Redis and built Python DAGs to modernize ETL process for Teradata, Postges and Tableau reports.
* Implemented an event driven platform with UI/UX using open-source software on OpenShift
* Enabled parallel processing for data extract for all 28 state markets to increase throughput from 1TB/hr to 4 TB/hr
* Reduced time to market from 8 weeks to 2 weeks for a new feature
* Increased the deployment rate from 1 per month to 1 per day.
* Enabled autoscaling for the current on prem infrastructure for all 28 state markets.
* Enabled a data security framework for PHI data meeting HIPAA rules
* Enabled a dynamic storage allocation and provisioning for the infrastructure.
* Enabled a live streaming of claims for operational reporting via EDA, microservices.

Environment: Red Hat OpenShift, Bitbucket, DevOps, Java, Open Source, Python

**JLT Employee Benefits, Technology Solutions, Leatherhead, UK Dec/2016 – Nov/2017**

**Data Migration lead - UPM Migration Program**

* Worked as an lead engineer for migrating the recently acquired UPM system technical components such as data, interfaces, pension calculations, reports, documents, payroll functions, Admin functions into a JLT pension administration software known as “open 2.0” product from Profound solutions.
* Developed ETL scripts for migrating the various client schemes in a highly scalable and performing data warehousing environment.
* Developed end to end technical processes for SSIS development & deployment.
* Led the build of data mapping requirements, data validations, data transformations
* Led the development of new .net programs for building pension calculations
* Led the build of crystal reports for payroll team and interfaces for admin team.
* Developed a high-level test strategy on end-to-end technical testing.
* Reduced the latency to less than 2 seconds for BI reporting
* Increased the QPS from 4000 to 12000 for BI operations team
* Increased the data throughput for ETL batch process from 1TB/4hr to 1 TB/2hr.
* Separated the workload for ETL batch processes and Reporting
* Improved the reporting user concurrency of up to 30 concurrent users.
* Environment: SQL server 2012, .net, SharePoint, SSIS, crystal report, EDW.

**Walgreens Boots Alliance, Nottingham, UK Feb/2015 – Nov/2017**

**MS Azure SharePoint Development lead**

* Commercial and Marketing Portfolio – SharePoint Projects
* Worked as an engineering lead developing SharePoint content pages, web pages, SharePoint apps on Boots live, a SharePoint colleague engagement platform hosted in Microsoft Azure.
* Developed provider hosted cloud app and web pages hosted in Microsoft Azure.
* Developed user role matrix for permissions across SharePoint sites
* Directed UI/UX designer on wireframes, logical and physical UI design.
* Organized high level solution design workshops
* Led the infrastructure team on the build and availability of Azure environments
* Led the REST API development for building integration layer.
* Delivered a content management system scalable for 65,000 store colleagues.
* Delivered a system which is 99.9% available, latency with less than 2 seconds
* Implemented a web application reliability for 100 concurrent users
* Built resilience for UK and Ireland stores based on counties.
* Delivered web responsive design for the end customers via Desktop, iPad, Mobile
* Delivered cloud apps for store sales visibility, audit review for the store managers
* Delivered a search function for 65k colleagues to perform search of digital assets.
* Environment: SharePoint 2013, MS Azure, Java scripts, SharePoint Provider Hosted App

**Debenhams, Taunton, UK Sep/2014 – Feb/2015**

**EDW Sales Data Migration Project**

* Worked as an engineering lead for reverse re-engineering the existing SPSS modules into OBIEE/SAP BI BO reports for sales subject.
* Developed SQL statements for data validation between source and target
* Led the Sales data test case preparation from finance team and OBIEE team.
* Tested the SAP BI BO reports for validating the sales data migration.
* Environment: DB2 DW 9.7, Pure data, SAP BI BO, SPSS, OBIEE, ODI, SQL developer

**WellPoint, Richmond, VA Aug/2013 – Aug/2014**

**Business Intelligence lead**

* IM Legacy DW migration & decommission program
* Worked as an engineering lead for decommissioning 2 legacy DW - DDW and ISG.
* This project involves decommissioning the existing legacy DW system in Oracle and SQL server and migrating the associated data and reports to the new enterprise data warehouse in Teradata
* Developed communication plan for legacy end users prior to DW decommission.
* Identified the column gaps, data quality and data integrity issues.
* Led the design for incremental and historical ETL jobs using BTEQ scripts in EDW
* Conducted data profiling for ISG DW using Informatica data explorer to identify data gaps.
* Led the testing of SAP BI BO reports against legacy DW in Mainframe, SQL and EDW.
* Environment: Teradata, Informatica data explorer, SAP BI BO, Mainframe, SQL Server, Lean SDLC

**Nike, Beaverton, OR Mar/2013 – Aug/2013**

**Test Lead**

* Digital Order Management System Enhancement Agile Project – Worked as a Test Lead
* Developed test plan for integration testing between DOMS, EDI and SAP AFS.
* Hands on working in sterling DOMS application console as part of the test validation.
* Environment: IBM sterling order management V9.0, SAP AFS, XML, Web services API tester, JIRA

**Lowe’s Companies, Mooresville, NC Apr/2012 – Feb/2013**

**Oracle Peoplesoft Test Lead**

* Worked as part of Oracle PeopleSoft financials reimplementation team
* PeopleSoft financials 9.1 and SRM reimplementation project -Worked as a QA program Lead
* The objective of the project is to consolidate the business processes and upgrade the current 8.4 and 8.9 finance and SRM instances for USA and CAN business units into single 9.1 instances. It involved mainly 4 modules such as Accounts payable, Assets management, General ledger and SRM integrating with EDI.
* Developed program QA strategy for Oracle PeopleSoft financials re-implementation and managed a team of test leads and test engineers

**Hannaford Supermarkets (Delhaize), Employer is Infosys Limited Portland, ME May/2010 – Apr/2012**

**Technical Test Lead**

* Worked as part of Master Network business transformation project for Hannaford
* Master Network business transformation project
* This is a business transformation project enabling a common supply chain systems platform for its different operating companies named Food Lion and Hannaford brothers.
* Led the UAT activities for merging the pricing and promotion systems of Food Lion and Hannaford IT systems.
* Environment: Mainframe, DB2, JCL, COBOL, HP QC

**Gap Account, India Sep/2009 – May/2010**

**Technical Lead**

* Re-designed the Mainframe DB2 programs.
* Environment: DB2, SQL, SQL developer.

**JCPenney, Plano, TX Feb/2008 – Aug/2009**

**Technical Lead**

* Sterling ecommerce Implementation program
* Sterling package integrating with the existing purchase order mainframe system, TIBCO.
* Developed the Mainframe batch test environment for the purchase order batch jobs.
* Designed and developed new Mainframe IMS DB batch programs, MQ programs for integrating the purchase orders with Sterling OMS system.
* Tested the sterling OMS application console for various order management scenarios.
* Software Used: IMS DB/DC, COBOL, DB2, Sterling 8.5(Yantra), MQSeries, TIBCO

**Unisource worldwide, Cincinnati, OH May/2006 – Jan/2008**

**Technical Lead**

* Worked as an onsite coordinator for requirement elicitation and coordinating with offshore on development. Also worked on designing an automated tool for converting assembler programs into COBOL programs and coordinated with offshore team on developing the tool.
* Mainly worked for developing prototype for master data management online applications and documenting the functions for maintaining the master data.

**Ameriprise Financials, US Dec/2005 – Apr/2006**

**Software Engineer**

**Farmers New World Life Zurich Financial Services, Sep/2004 – Dec/2005**

**Software Engineer**

**Spardasco, Spardat, Germany Jun/2003 – Aug/2004**

**Software Engineer**