**PURUSHOTHAM K**

**DevOps Engineer**

Email: [kpurshi@gmail.com](mailto:kpurshi@gmail.com)

Cell: (302) 803-9164

Plano, TX, 75025

[www.linkedin.com/in/purushotham-krishna-murthy-0a56417](http://www.linkedin.com/in/purushotham-krishna-murthy-0a56417)

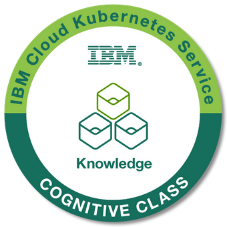
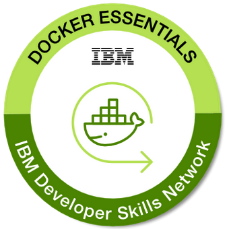
**SUMMARY:**

* 16+ years of experience in IT with 8+ years of DevOps tools with AWS cloud
* Worked on different domains and projects: CapitalOne (Banking – USA), Staples (Retail -USA), Ahold Delhaize (Retail – USA), AT&T (Telecommunication - USA), Medtronic (Medical devices – USA), DirecTV (Media and Entertainment – USA), Shell (Petroleum Company, Manchester, UK)

**RESPONSIBILITIES:**

* Expertise on AWS Cloud services EC2, IAM, S3 bucket, ASG, ELB, EKS, VPC, Cloud watch, Route-53, ECS, Lambda & RDS etc.
* Expertise on Azure Cloud services VM, VMSS, RG, AD, LB, Storage, vNet
* Hands-on with the terraform (.tf) scripts to configure the cloud infrastructure as a Code (IaaC) using Terraform tool.
* Experienced in working on DevOps/Agile operations process and tools area (Build & Release automation, Incident and Change Management)
* Responsible for creating Kubernetes Clusters, Objects (Pod, Replica Set, Deployment, Services etc.)
* Kubernetes deployment strategies (Recreate, Rolling update, Bluegreen & Canary)
* Hands on experience on containerization technologies like Docker and Docker Registry
* Worked extensively on Service Now tool for all Incidents (Normal/emergency) for any production change/deployment activity.
* Dockerizing (Containerization) of the applications using Docker tool.
* Build & Release Management lifecycle, which includes build platform ownership, scheduling, coordinating and the management of releases across the enterprise for multiple applications across various Products and Platforms.
* Troubleshoot issues along the automated CICD pipeline in various environments.
* Expertise in CI/CD process with DevOps tools Git, Maven, Jenkins, Docker, Kubernetes, and Cloud services
* Manage releases that can be inclusive of application updates, platform patches, security improvements, upgrades, Projects, and Programs.
* Measure and monitor progress to ensure application releases are delivered on time.
* Experience with Installation and Configuration of Docker environment including Docker trusted registry for managing different Docker images.
* Experience in Python and Developed the Lambda functions using python and automated daily tasks using python scripting.
* Using python scripting also automated the daily tasks of updating and working on spread sheet activities.
* Managed environments DEV, QA, Stage, UAT and PROD for various releases and designed instance strategies
* Good understanding of Agile methodology and scrum planning and meetings.
* Experience in the Linux environment and a good understanding of its fundamentals and shell scripting
* Experience in webservice testing with Soap UI & Postman tools.

**CERTIFICATIONS:**

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**WORK EXPERIENCE:**

**Client: CapitalOne, TX, USA 01/2022 – Till date**

**Role: Sr DevOps Engineer (SRE/Platform admin)**

**Responsibilities:**

* Maintain AWS infrastructure for Applications.
* Working on AWS services like creating EC2, ALB/NLB, S3, ELB, EKS, RDS, IAM, R53, ECS, Lambda and ASG
* Continuous Delivery (CI/CD) using Jenkins and Git. Continued execution will be done using the DevOps tools.
* Developed Cloud Infrastructure using Terraform (VPC, Route53, ELB, Auto Scaling) components.
* Documentation that includes creating, enhancing, and updating existing technical documents.
* Extensively worked on GitHub administration and Mend (formerly White source) software composition analysis tool.
* Worked extensively on Service Now tool for all Incidents (Normal/emergency) for any production change/deployment activity
* Automated frequently executed daily tasks [remote copy, database backups/restores, fetching AWS services asset info] by writing the Shell scripts & AWS CLI commands.
* Build the Docker images for the microservices and store/push them in the JFrog artifactory and deploy them into containers.
* Integrate security practices into the DevOps pipeline to identify and address security issues early in the development process.
* Created and modified the IAM Roles and Policy by using avenue tool.
* Performed failover from one region to another as disaster recovery.
* Monitoring the Production issues using New relic, Splunk, Prometheus, Grafana for any critical server issues.
* As an SRE Created Critical and warning thresholds and monitored the server's performance, CPU Utilization, disk usage etc.
* As part of SRE worked on creating Monitors, policies, conditions & alerts on the infrastructure services using New relic monitoring tool.
* Worked on Splunk tool for monitoring real-time log data generated by system for various analysis using indexes, queries, and filters.

**Client: Staples, MA, USA (The Boston group) 10/2020 – 12/2021**

**Role: DevOps Engineer**

**Responsibilities:**

* Maintain Azure infrastructure for Web Application.
* Working on Azure services like creating VMs, RGs, Load Balancing and VMSS
* Working on creating Jenkin pipeline jobs on CI/CD process
* Working on Terraform as IaaS tool to create VMs by automation process.
* Documentation that includes creating, enhancing, and updating existing technical documents.
* Automated frequently executed daily tasks [remote copy, database backups/restores, start/stop of services].
* Achieved the efficient and faster in Development Lifecycle in Agile methodology by CI/CD process with Jenkin Pipeline project.
* Expertise in Docker – containerization for Production deployment
* Created Kubernetes Clusters and monitoring.
* Working on Azure Cloud computing
* Provisioning and Re-provisioning servers using Azure VMs.
* Creating terraform script to configure VM using Terraform tool.

**Client: Ahold Delhaize, MA, US (IBM)**

**Role: DevOps Engineer** **09/2017-10/2020**

**Responsibilities:**

* Launching and configuring of Amazon EC2 (AWS) Cloud Servers using AMI's and configuring the servers for specified applications
* Worked on creation of custom Docker container images, tagging, and pushing the images.
* Managed to organizational standards by maintaining the source code in GIT for various applications. Creating and maintaining the development and release branches on GIT
* Creating repositories in GitHub for newly On-boarded projects
* Worked on POC for ELK set-up to present and implement the same in the new upcoming projects (installed elastic search, logstash & Kibana) maintained for 6 months.
* Implementing Jenkins continuous integration tool including installing setting the jobs/plans and setting up the tool for builds.
* Involved in installing Jenkins on a Linux Machine and creating a Master and Slave configuration to implement multiple parallel builds through a build.
* Primary responsibilities include Build and Deployment of the java applications onto different environments like QA, UAT & pre-Prod.
* Ability to learn and master new technologies and to deliver outputs in short deadlines.

**Client: AT&T, Denver CO, (IBM) 08/2016 - 08/2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in Installing Jenkins on a Linux machine.
* Configure the jobs in Jenkins CI tool.
* Used Jenkins for Continuous Integration and deployment into Tomcat Application Server
* Created users, repositories, branching, tagging, patch fixes, pull request.
* Monitored the automated build and continuous integration process to ensure correct build execution and facilitate resolution of build/ release failures.
* Performed build and release of all software cycles engineering, test, production, update, patches, and maintenance.
* Worked closely with Development and QA teams on Build and Deployment issues.

**Client: Medtronic Inc, Minneapolis, MN (IBM) 10/2015 – 08/2016**

**Role: Release Engineer**

**Responsibilities:**

* Configured Hudson/Jenkins for doing the build in all the non-production and production environments.
* Experienced with managing some build processes using Team city in pre-prod development environment.
* Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup, and End-End Job Setup of all the projects.
* Used GIT as Version Control System for two applications. Managed development streams and integration streams.
* Used Perforce for Software Configuration management and maintaining versions of the Symantec’s Website code.
* Deployed the ANT and Maven generated artifacts in a WebSphere application server.
* Develop and maintain ANT (build.xml) and Maven (pom.xml) scripts.
* The entire process of Build, Release and deployment was automated using Ant, Shell scripting and Cruise Control.
* Responsible for Branching and merging the code as per the schedule.
* Configured Bamboo for doing the build in all the non-production and production environments.
* Written shell scripts and Perl scripting to take backup oracle database.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as Apache, JBOSS, Web Logic; and deploying J2EE Applications to these environments.
* Executed DB scripts (DML and DDL) which have dependencies on the code on Oracle DB.

**Client: IBM India, Bangalore 03/2006 – 10/2015**

**Role: Technical Team Leader**

**Responsibilities:**

* Responsible for leading a team in delivering solutions to our customers in the Media & Entertainment sector.
* Deliver new and complex high-quality testing solutions to clients in response to varying business requirements.
* Responsible for managing planning and tracking aspects of the project.
* Responsible for effective communication between the project team and the customer. Provide day to day direction to the project team and regular project status to the customer.
* Analyzing and understanding the business requirements.
* Developed Selenium scripts in Java with TestNG framework.
* Preparation of SQL queries and executing the test cases.
* Creation of Test Planning, Test estimation and Test strategies based on the testing requirements.
* Involved in regression testing at the end of the cycle.
* Involved in smoke testing at the end of every enterprise release.
* Analyze the bug trend and perform root cause analysis on the bugs.
* Deliver new and complex high-quality solutions to clients in response to varying business requirements.

**EDUCATION:**

* Bachelors in computer science (B.Sc.)
* Master of Computer Applications (MCA)