**Venkata Praveen Bavana**

**pvenkata565@gmail.com**

**510 972 3644**

**SUMMARY:**

* 9+ years of experience in IT industry as API Developer and DevOps Engineer in software configuration practices, Build Release Management, and tools.
* Design and Develop APIs with industry best practices/standards.
* Work efficiently with fellow API Developers, Team Leads, Architects to deliver features through the creation of reusable RESTful & SOAP APIs.
* Responsible for all aspects of API design including scalability, reliability, rate limiting and monitoring.
* Build reports/dashboards to track API usage and system performance.
* Support older API versions and help transition users to newer versions.
* Developed java modules implementing business rules and workflows using Spring Boot
* Designed and Developed thee REST based Microservices using the Spring Boot
* Implemented Micro-services using Pivotal Cloud Foundry(PCF) platform built upon Spring Boot Services.
* Used Micro service architecture with Spring Boot based services interacting through a combination of Rest and Apache Kafka message brokers and also worked with Kafka Cluster using Zookeeper.
* Expertise in using AWS services including EC2, Auto Scaling in launching EC2 instances, Security Groups, ELB, S3, EBS, AMI, Cloud Front, Cloud Formation, Kinesis, RDS, VPC, Route53, Cloud Watch, IAM, SNS and SQS.
* Experience with container-based deployments using Docker, Docker swarm, working with Docker images, Docker Hub, Docker registries and Kubernetes.
* Exposure in writing Groovy, Ruby and Python scripts for automation of build and infrastructure automation.
* Hands-on experience implementing PaaS, IaaS, SaaS style delivery models inside the Enterprise (Data center) and in Public Clouds using like AWS, Google Cloud, and Kubernetes
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
* Set up a GCP Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience in writing Scripts to handle automation/administration tasks using Python, Shell and Bash scripting.
* Experience in Analysis, Design, Development, Implementation and Testing of various stand - alone and client-server architecture-based enterprise application software in Python on various domains.
* Excellent knowledge on Python Collections and Multi-Threading.
* Experience in working on various python packages such as Numpy, SQLAlchemy, matplotlib, Beautiful soup, pickle, Pyside, Scipy, and PyTables.
* Expertise in establishing database connections for Java and Python by configuring packages like JDBC, MySQL-Python.
* Experienced in Windows Azure Services like PaaS, IaaS & experienced in deployment & configuration management & Virtualization.
* Experience in Developing Spark applications using Spark - SQL in Databricks for data extraction, transformation and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns.
* Experience working with Databases, specifically Mongo DB (performing queries and understanding the logic of DB structure).
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics. Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing the data in In Azure Databricks.
* Responsible for estimating the cluster size, monitoring and troubleshooting of the Spark data bricks cluster.
* Implementing Azure Application Insights & OMS for monitoring applications & servers. Solution development for OMS Alerting & Remediation.
* Worked with Configuration Management tools – Ansible, Puppet and Chef.
* Experienced in working with databases such as RDS, MySQL and DynamoDB.
* Expertise on implementing Jenkins builds pipeline flow to handle complex build workflows.
* Maintained continuous build environment implemented with plugins like ANT and Maven within Jenkins.
* Experience on monitoring tools such as AWS Cloud Watch and Elasticsearch Logstash Kibana (ELK).
* Build and configured virtual Data center in Amazon cloud to support Enterprise hosting which includes VPC, public, private Subnets, Security groups and Route tables.
* Extensively worked with Version Control Systems GIT and SVN (Subversion).

**EDUCATION AND CERTIFICATIONS**

* Master’s in computer science From International Technological university – 2018
* Bachelors in computer science From JNTUH -2014

**TECHNICAL SKILLS:**

**AWS Services:** **Web Technologies:**

EC2, VPC, S3, ELB, EBS, IAM, Cloud HTML/HTML5, CSS/CSS3

Watch, SNS, SQS, Route 53, Lambda, RDS

**Container Orchestration Tool: Operating Systems:**

Docker, Kubernetes Red hat, Ubuntu, Linux, Windows, CentOS

**Configuration Management Tools:** **Version Control Tools**:

Ansible, Puppet, Chef SVN, GIT

**Build/CI/CD Tools:** **Web Servers:**

Jenkins, Maven Apache, Nginx, Tomcat

**Virtualization**: **Scripting Languages:**

VMware and Virtual Box Shell, Bash, Ruby, Python

**Database:** **Monitoring Tools:**

MySQL, DynamoDB Cloud Watch, ELK

**Professional Experience:**

**7-Eleven, Irving, TX Apr 2021 to Present**

**Sr. API Developer**

**Responsibilities:**

* Design and Develop APIs with industry best practices/standards.
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* Support older API versions and help transition users to newer versions.
* Hands on experience in Postman.
* Expertise in using SQL and mongo Db.
* Experience working with source control tools like GIT, Bit bucket.
* Experience working with the Microsoft Azure Cloud.
* Experience working in SQL databases with experience in PostgreSQL.
* Establishing database connections for Java and Python by configuring packages like JDBC, MySQL-Python.
* Working in Windows Azure Services like PaaS, IaaS & experienced in deployment & configuration management & Virtualization.
* Deploying APIs using API Management solutions Azure API Management.
* Knowledge about API design standards, patterns, and best-practices especially OpenAPI 3.0, REST, SOAP, MQ, JSON, Microservices etc.
* Knowledge of client-side technologies like Node JS, Angular JS.
* Analyzes, designs, develops, codes and implements programs in one or more programming languages, for Web and Rich Internet Applications.
* Supports applications with an understanding of system integration, test planning, scripting, and troubleshooting.
* Assesses the health and performance of software applications and databases.
* Experience with cloud technologies and migrations.
* Experience preferred with AWS. foundational services like VPCs, Security groups, EC2, RDS, S3 ACLs, KMS, AWS CLI and IAM etc.
* Good understanding of security best practices (e.g., IAM roles, lambda authorizer KMS, etc.,).
* Able to write and manage CloudFormation template to manage AWS Serverless resource creation.
* Expertise in using AWS services including EC2, Auto Scaling in launching EC2 instances, Security Groups, ELB, S3, EBS, AMI, Cloud Front, Cloud Formation, Kinesis, RDS, VPC, Route53, Cloud Watch, IAM, SNS and SQS.
* Experience with container-based deployments using Docker, Docker swarm, working with Docker images, Docker Hub, Docker registries and Kubernetes.
* Strong knowledge about HTTP, REST and JSON.
* Familiarity with RESTful APIs and respective UI Integration.
* Web application development using Python 3.5, Django 1.9, Flask, MongoDB, JavaScript, AJAX, HTML, XML, and template languages
* Experience working with Databases, specifically Mongo DB (performing queries and understanding the logic of DB structure).

**Environment:** API, AWS, Azure, Java, Docker, Kubernetes, GIT, Ansible, Jenkins, and Python

**Google, Mountain View, CA Oct 2018 to Mar 2021**

**API Developer**

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* Hands on experience in Postman.
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* Able to write and manage CloudFormation template to manage AWS Serverless resource creation.
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* Experience working with the Microsoft Azure Cloud.
* Experience working in SQL databases with experience in PostgreSQL.
* Establishing database connections for Java and Python by configuring packages like JDBC, MySQL-Python.
* Working in Windows Azure Services like PaaS, IaaS & experienced in deployment & configuration management & Virtualization.
* Deploying APIs using API Management solutions Azure API Management.
* Knowledge about API design standards, patterns, and best-practices especially Open API 3.0, REST, SOAP, MQ, JSON, Microservices etc.
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* Supports applications with an understanding of system integration, test planning, scripting, and troubleshooting.
* Assesses the health and performance of software applications and databases.
* Experience with cloud technologies and migrations.
* Experience preferred with AWS. foundational services like VPCs, Security groups, EC2, RDS, S3 ACLs, KMS, AWS CLI and IAM etc.
* Good understanding of security best practices (e.g., IAM roles, lambda authorizer KMS, etc.,).

**Environment:** API, AWS, Azure, Java, Docker, Kubernetes, GIT, Ansible, Jenkins, and Python

**Infoblox-Cybersecurity Automation, Santa Clara, CA May 2016 to Sep 2018**

**DevOps Engineer**

**Responsibilities:**

* Implemented fault-tolerant, elasticity and highly available AWS Cloud Infrastructure automated with various resources, EC2, IAM, VPC, ELB, Route53, AWS Glue, S3, Glacier, Cloud Watch, Cloud Trails, RDS, SNS, Auto Scaling Group for a multitude of applications.
* Automate full-scale transitioning / build CICD user provisioning system of existing manual help desk service to complete suite of ITSM modules for ELM - Enterprise Lifecycle management.
* Experience in Analysis, Design, Development, Implementation and Testing of various stand - alone and client-server architecture-based enterprise application software in Python on various domains.
* Excellent knowledge on Python Collections and Multi-Threading.
* Experience in working on various python packages such as Numpy, SQLAlchemy, matplotlib, Beautiful soup, pickle, Pyside, Scipy, and PyTables.
* Expertise in establishing database connections for Java and Python by configuring packages like JDBC, MySQL-Python.
* Worked with various C and C++ tasks, integrated with them using Python.
* Strong Socket programming experience in Python. Implemented complex networking operations like race route, SMTP mail server and web server.
* Strong knowledge of Python Web Frameworks such as Django and Flask.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization as well as wrote Python modules to view and connect the Apache Cassandra instance.
* Wrapper developed in Python to run this application along with other applications
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization as well as wrote Python modules to view and connect the Apache Cassandra instance.
* Wrapper developed in Python to run this application along with other applications
* Understanding of Active directory & ServiceNow domains and work on related services to deliver the functions. Python scripting for automation development and design schema to implement code modules for different test scenarios to integrate new hire and other project requirements.
* Created multiple Python, Bash & Shell Scripts for application-level tasks. Monitored App & Servers with Web Servers Administration on Apache. Built database connections in Python configuring packages - JDBC, MySQL-Python. Create and run unit tests. Build & integrate workflows with ServiceNow & Active Directory.
* Worked on JSON based REST services, Amazon Web Services (AWS) & Git content repositories
* Define & Develop Strategy with Git, Continuous Integration and cloud deployment. GitHub code inspection & management. OKTA integration for secure authentication, module development & maintenance. Environment setup, Continuous Deploy on cloud - amazon web services & Jenkins.
* Troubleshooting the Azure Development, configuration & Performance issues.
* Installed SonarQube as a Docker container on open stack, Azure, AWS EC2 & integrated it with Jenkins
* Experienced in Windows Azure Services like PaaS, IaaS & experienced in deployment & configuration management & Virtualization.
* Experience in Developing Spark applications using Spark - SQL in Databricks for data extraction, transformation and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns.
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics. Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing the data in In Azure Databricks.
* Responsible for estimating the cluster size, monitoring and troubleshooting of the Spark data bricks cluster.
* Hands on Experience with ETL tools such as AWS Glue, Using Data pipeline to move data to AWS RedShift
* Automate AWS infrastructure through infrastructure as code by writing various Terraform modules, scripts by creating AWS IAM users, groups, roles, policies, custom policies, AWS Glue, Crawlers, Redshift clusters, snapshots of clusters, EC2, S3 buckets.
* Migrated an application and executed Proof of Concepts (POC) on behalf of configuration management, CI/CD practice, assessing new methods, developing and implementing appropriate practices on AWS cloud environment.
* Tested high availability of AWS RDS MySQL database by simulating failover from the primary database to read replicas and hence promoting read replica to the primary.
* Created S3 buckets for session storage and managed policies for S3 buckets.
* Developed and managed Chef cookbooks and roles to be provisioning AWS virtual server instances for web applications deployment.
* Deployed mircoservices2, including provisioning AZURE environment.
* Experience Active Directory, ADFS, Azure Active Directory Domain Service, SSO & MFA & security
* Worked on AWS Lambda services for automating the process of taking EBS Snapshots every day in dev environment on the cloud.
* Have built Elastic search, Log stash and Kibana (ELK) for centralized logging and then store logs and metrics into S3 bucket using Lambda functions.
* Worked on Lambda functions that aggregates the data from incoming events, then stored result data in Amazon DynamoDB. This function also sends data to CloudWatch for simple monitoring of metrices.
* Drive end to end deployment of various Components on the Azure Platform
* Creating Storage Pool & Stripping of Disk for Azure Virtual Machines.
* Utilized Azure Internal Load Balancer to provide high availability for IaaS VMs & PaaS role instances.
* Checked server logs and collected and maintained monitors and wrote queries for alerts using Cloud Watch.
* Monitored the application and network Traffic with Cloud Watch.
* Reviewed AWS design architectures with AWS IaaS/PaaS, DevOps, Storage, Databases Components also Work with Cloud Platform Teams on implementing new features on AWS platform and Design and Development work on building scripts and automations for AWS cloud.
* Virtual Machine Backup & Recover from a Recovery Services Vault using Azure Power Shell & Portal.
* H&le escalated Support tickets till closure for MS Azure Paas platform.
* Created S3 buckets for session storage and managed policies for S3 buckets.
* Developed and managed Chef cookbooks and roles to be provisioning AWS virtual server instances
* Checked server logs and collected and maintained monitors and wrote queries for alerts using Cloud Watch.

**Environment:** AWS (EC2, IAM, VPC, ELB, Route53, S3, Glacier, Cloud Watch, Cloud Trails, RDS, SNS, Auto Scaling Group, Directory Services, Lambda), Azure, Chef DK 0.12, Ruby, MySQL 5.5, httpd, Apache Tomcat, Jenkins, Git, GitHub, Azure

**SCreatives Ltd, India Apr 2013 –Mar 2016**

**Software Developer/Devops Engineer**

**Responsibilities:**

* Software development, testing, support of web/web service-based enterprise applications using JAVA/J2EE/C++ technologies in retail domain Leading Fashion& Apparel Retailer (Nordstrom Inc)-Quality Engineering Services; SEARS-multinational store chain; testing in E-Commerce; JCPenney-Apparel & accessories Retailer-Quality Assurance Dept.; NIKE-Order Management System. I develop, test & deploy end-end workflow using APIs in Web-services; Register, Login, Search, Add to Cart, Checkout, Payment, Place order, etc.
* Develop code, review artifacts (Code, Documentation, test scripts), reviews for self-peers, tests & document results to build/validate/deploy/release. Used VB, Java, HTTP/HTML/CSS/jQuery/SQL/Selenium. /VuGen/SoapUI. Analyze &workload modeling. Data setup, query, and generate report with SQL/ORACLE/Teradata.
* Created Jenkins pipeline jobs for deployment, in agile methodology for development. Integrated GIT into Jenkins to automate code checkout process. Used MAVEN build tools on Java to develop code artifacts.
* Automated build & release management process monitoring releases. Run batch jobs in ControlM, Perfmon. Server monitor with Dynatrace, AWR, Unix, SQL, Log Trace. Configure app server Tomcat deploying java web application. Administer server, Kernel upgrade & deploy patches applying firewall security policies maintaining the best practices. Monitored system capacity & performance with Vmstat, Iostat tools
* Created & maintained Continuous Integration Process Documentation. Improve speed, efficiency & scalability of CI environment, automating where possible. Build Cloud Formation templates to use automation function on EC2 instances Amazon cloud service. Project move creating AWS components to Google Cloud.