

Venkata Boppudi

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SUMMARY:

- Having 10+ years of experience as a **Python Developer** with deep understanding of technology trends with expertise in the core of complex technologies. Solid experience in Analysis, Design and Development, Testing, Implementation, production support and maintenance of various Web Applications using Python, Django, Bottle framework
- Hands-on experience in structured Database CRUD operations.
- Strong understanding of AWS IAM security principles and technologies.
- DevOps essential tools like **Chef, Puppet, Ansible, Subversion (SVN), GIT, Hudson, Jenkins**
- Experience in AWS platform and its features including IAM, EC2, EBS, VPC, RDS, Cloud Watch, Cloud Trail, Cloud Formation AWS Configuration, Autoscaling, CloudFront, S3, SQS, SNS, Lambda
- Extensive experience in Requirement Analysis, Application Design & Development and profound knowledge on SDLC using agile and V-model.
- Experienced in working with various Python IDE's using PyCharm, PyScripter, Spyder, PyStudio and PyDev and Bottle framework.
- and Route53 .
- Experienced in developing Web-based Applications using Python, CSS, HTML, HTML5, CSS3, JavaScript, AJAX, J2EE, jQuery, JSON, jQuery UI, XML, AngularJS and jQuery also involving Beautiful Soap, Numpy, Scipy, Matplotlib, python-twitter, Pandas Dataframe, urllib2 libraries.
- Experienced in developing Web Services with Python programming language and good knowledge of Web Services with protocols SOAP, REST.
- Experience with Agile methodology using Jira
- Involved in various projects related to Data Modeling, System/Data Analysis, Design and Development for both OLTP and Data warehousing environments.
- Installed and configured **containers using** dockers, Podman, CRI-O and maintained through Kubernetes and OpenShift tools
- Expertise high performance clustering installation and configure HPC
- Oracle supercluster, zfs and Exadata storage hands on experience
- Configured solaris10 zones, LDOMS and containers.
- Aix 6x installation, up gradation, migration and troubleshooting.
- Upgrade firmware of managed machines, devices and HMC.
- Create standard and Virtual I/O client LPAR using HMC
- Configuration management tools Blade logic, Puppet, CA Uncenter
- Installed configured BMC blade logic 8.1
- Added server to blade logic console and automated jobs through Blade logic
- Configured LDAP
- Installed and configured (POC) Nutanix virtualized platform.
- Installed **BMC Patrol** for monitoring the health of systems.
- **Big brother** for monitoring the Health of systems and SNMP and SNMP walk
- **Weblogic 5/6/7**, Websphere, **IPlanet** and JBOSS on **Solaris**
- **MRTG** Implemented on Windows2000 for measuring the Inbound and out bound Traffic.

SCRIPTING | PROGRAMMING

- Python Scripting
- Proficient with Django, Flask, Pandas framework in python
- Using Terraform automated AWS and Azure environment
- Scheduled Cron jobs using bash shell scripting and Python
- Used YAML for Docker, Kubernetes, OpenShift container deployments
- JSON in AWS automation.
- Worked on Go docker file

APPLICATIONS | CONFIGURATIONS | INSTALLATIONS

- Installed, configured Oracle enterprise Linux systems and patched.
- Designed and deployed a multitude application utilizing almost all of the AWS stack and Azure focusing on high-availability, fault tolerance, and auto-scaling.
- Migrated the current Linux environment to AWS-RHEL/windows and Azure/RHEL-windows and Linux environment and used auto scaling feature.
- Install and configure puppet server / workstation and nodes via CLI tools to AWS and Azure nodes.
- Deployed and supported Memcache-AWS Elasti Cache.
- Designed and architected cloud environment in azure and AWS
- Installed and configured security for the UNIX systems.
- Installed and configured web application firewall Imperva(appliance)
- Supported People soft environment (People tools: Application designer, PeopleSoft Upgrade Manager, data mover; People soft apps: HCM, EPM, Portals, Financial and PIA
- Integrated single sign on various applications.
- Installed and configured java-based application Weblogic,websphere,Jboss
- Strong Name Service configuration experience NIS with automount

PROFESSIONAL EXPERIENCE

SYMANTEC, CA

Sr PYTHON DEV, SRE TEAM LEAD

JULY 2015 – PRESENT

- Worked on proof of concept projects to integrate Python into future projects
- Designed AWS workflow using S3, Api Gateway, Lambda and Cloudwatch
- Designed and developed the server module and resolved issues and responsible for its enhancements.
- Architected and developed Python and Django for the backend development and front-end application using React, Webpack, Redux, and ES6/7 and PostgreSQL for database.
- Worked on Django ORM module for signing complex queries.
- Defined different Django API profiling techniques for faster rendering information.
- Used Ansible, Vagrant and Docker for managing the application environments.
- Worked on Django Signals, Celery and RabbitMQ queues.
- Used PyUnit, the Python unit test framework, for all Python applications.
- Worked with Splunk for testing the performance and debugging server level problems.
- Implemented various Validation Controls for form validation and implemented custom validation controls using Object Oriented JavaScript.
- Generated graphical reports using python package NumPy and Matplotlib
- Used several Python libraries like NumPy, Pandas and Matplotlib.
- Managed large datasets using Panda data frames and MySQL and creating efficient system.
- Optimized Microservices using NodeJS and ES6 as interfaces to Cassandra NoSQL database
- Optimized services using NodeJS, ES6 as interfaces to Cassandra NoSQL database and programmed and prepared code for interfacing with Apache Tomcat systems
- Developed front-end applications using ReactJS, Flux, NodeJS and Docker and Built Spring based Java and Scala services to support Enterprise Web application

- Design and Develop ETL Processes in AWS Glue to migrate Campaign data from external sources like S3, ORC/Parquet/Text Files into AWS Redshift.
- Create external tables with partitions using Hive, AWS Athena and Redshift
- Developed and executed a migration strategy to move Data Warehouse from an Oracle platform to AWS Redshift
- Load data into Amazon Redshift and use AWS Cloud Watch to collect and monitor AWS RDS instances within Confidential
- Skilled in monitoring servers using Nagios, Cloud watch and using ELK Stack Elasticsearch Fluentd Kibana.
- Elasticsearch and Logstash performance and configuration tuning.
- Performed data analysis, feature selection, feature extraction using Apache Spark Machine Learning streaming libraries in Python and Creating data pipelines using Apache Spark, a big-data processing and computing framework.
- Designed and implemented Sandra NoSQL database read/write/search function. Worked on migrating data to Amazon AWS. Used AWS products like EC2, IAM, RDS, Log Monitor, Lambda, REST API Gateway etc.
- Used React JS in components like JSX, creating React components, Virtual DOM, React Props, Lifecycle methods, working with React States and Events.
- Developed several REST APIs using micro-services style of architecture with Kafka as message broker and Mongo DB as backend database.
- Developed Restful microservices using Flask and Django and deployed on AWS servers using EBS and EC2.
- Having Knowledge on AWS Lambda, Auto scaling, Cloud Front, RDS, Route53, AWS SNS, SQS, SES.
- Implemented AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for infrastructure as code.
- Automate provisioning and repetitive tasks using Terraform and Python, Docker container, Service Orchestration.
- Worked on Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform).
- Experienced with version control tools like GIT and SVN and integrated build process with Jenkins
- Written Maven scripts, Installed Jenkins, written shell script for end to end build and deployment automation
- Build Continuous Integration environment (Jenkins) and Continuous delivery environment (Puppet).
- Integrated delivery (CI and CD process) Using Jenkins, Chef, and Puppet.
- Automated the release pipeline to achieve zero touch deployments using Jenkins, GIT
- Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
- Developed views and templates with Django view controller and template to create a user-friendly website interface.
- Published REST API's to fetch data from Elastic Search clusters for client-based applications to search patients and claims by multi-field indexes and Used Elastic Search for setting up the search cluster
- Developed frontend and backend modules using Python on Django including Tastypie Web Framework using Git.
- Used CircleCI for continuous integration and delivery platform over GIT.
- Worked on multiple containers and managed the load balancing between all the containers using NGINX.
- Developing the Python automated scripting using Boto3 library for AWS Security audit and reporting using AWS Lambda for multiple AWS Accounts.
- Generated various graphs for business decision making using Python matplotlib library.
- Manage datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MYSQL connector and MySQL dB package to retrieve information.

- Designed front end using UI, HTML, Bootstrap, Node JS, underscore JS, Angular JS CSS, and JavaScript and Strong Expertise in working with server-side technologies including databases, restful API and MVC design patterns.
- Created the Application using React.JS and Node.js libraries NPM, gulp directories to generate desired view and flux to root the URL's properly.
- Developed web applications running on NodeJS using the Express framework, Vue.js and Backbone.js with Mustache.js for front end MVC/templating.
- New library development with micro services architecture using Rest APIs, spring boot and pivotal cloud foundry
- Strong knowledge on AWS, Ansible, Terraform, S3, Cloud formation, Boto3, Redshift, CLI.
- Created MySQL queue using AWS SNS, SQS, and Golang (Go), to concurrently process SQL queries in the background and Built a Golang web server to host multiple tools so another has http access to them.
- Used Django Migrations for designing and expanding of the database.
- Improved performance of the tables through load testing using Cassandra stress tool.
- Used Test driven approach (TDD) for developing services required for the application and Implemented Integration test cases and Developing predictive analytic using Apache Spark Scala APIs.
- Automated most of the daily task using python scripting.
- Worked on Jira for managing the tasks and improving the individual performance.

Environments: Python 3, Django, DjangoRest, Flask, React, Redux, CircleCI, Vagrant, Splunk, GitHub, Ansible, Ruby, HTML5/CSS, PostgreSQL, Amazon Web Service (AWS), S3, EC2, EBS, Pycharm, Linux, Shell Scripting, JIRA, ORM, microservices, pandas, flask, Python API, Celery, Tornado, SQLAlchemy, JavaScript, HTML5, CSS3, Angular, REST API, machine learning, Kafka, PyTorch, Fluentd, Numpy, Ruby on Rails, Es6, typescript, MySQL, SQL, PL/SQL, Cassandra, Rest, GitLab, Git, unit test, Selenium, Jest, Mockito, Agile, Scrum, DynamoDB, Google Cloud Platform, Nginx, Slack, Zoom, Docker, Jenkins, Kubernetes.

BOARDVANTAGE, CA

INFRASTRUCTURE ENGINEER

AUG 2013 – JUNE 2015

- Using terraform and json build the cloud formation environment in AWS with multiple instances. Installed and configured ec2 instances, Used Lambda to deploy app. Configured s3 buckets for the cloud watch trails.
- Design and configured AWS EKS and managed container platform
- POC build GKE on GCloud
- Design and architecture AWS and Azure storage layers (object, block, s3, etc)
- Led Patching Unix (Solaris, Linux) environment using blade logic and Eyeshare. Oracle supercluster configure and administering various components M6, IB switches, Exadata and zfs appliances
- Installed configured dockers, Kubernetes, OpenShift.
- Designed and Installed and configured CI/CD pipeline Jenkins with auto deployment of code and container deployment.
- Supported Kafka (MSK) on AWS environment. Using AWS config for test Lambda functions
- Designed and Installed configure satellite server and migrated to satellite 6.2.
- Migrated applications from RHEL to OEL. Patched OEL environment.
- Design and Install and maintenance of Oracle enterprise Linux.
- Design and Installed and configured Oracle RAC environment
- Design and implemented secure authentication on servers.

ADOBE, SAN JOSE

SOFTWARE ENGINEER

2011 – JULY 2013

- Banking Simulation Application Served as the sole developer for a greenfield Bank Simulator application that enabled real-time payment transfers between two banks.

- Information Authentication Application Lead a team of 2 Python developers to build a greenfield Account Information Authentication System that answers queries from authorized entities to verify confidential information such as client information and bank account numbers
- Create application using Django using RESTful API.
- Ensured high quality data collection and maintaining the integrity of the data. Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript. Designed and developed the data management system using MySQL.
- Build SQL queries for performing various CRUD operations like create, update, read and delete.
- Used Django Database API's to access database objects.
- Handled all the client-side validation using JavaScript and jQuery.
- Creating unit test/regression test framework for working/creating new code.
- Build all Database Mapping classes using Django Generic, Class, and function based methods.
- Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
- Implemented the Spring MVC architecture.
- Used Angular MVC and two-way data binding. Worked on automation scripts using Selenium in JAVA
- Created User Interface screens using HTML, AJAX, CSS, Java script
- Developed Action classes, Action Forms, and Struts Configuration file to handle required UI actions, JSPs for Views.
- Developed server-side presentation layer using Spring MVC Framework using Maven.
- Performed Inheritance based Object Relational Mappings in tables to simplify the data using HibernateORM.
- Used Eclipse IDE and deployed the application on Web Logic application over Apache Tomcat server.
- Debugging and testing of the applications & fine-tuning performance. Provided maintenance support in production environment.
- Unit tested all the classes using JUNIT at various class level and methods level.

Environments: Django, JavaScript, MySQL NumPy, SciPy, Pandas API, PEP, PIP, unit and regression testing, Rest Framework, Data handling and sorting, Java, J2EE, Spring MVC Framework, JSP, JSTL, HTML, CSS, JavaScript, XML, Log4J, Ant, Oracle, Tomcat, REST, Servlets, Hibernate, POJO, Restful Services.

EDUCATION

Bachelor of Science, Computer Science and engineering.

TECHNICAL SKILLS

Language: C, C++, Python, shell scripting, Json, Go, Groovy, YAML

Containers: Docker, Podman, CRI-O, Kubernetes and Openshift

CI/CD: OpenShift, ArgoCD, Semaphore, and Jenkins.

Software: Pycharm, VsCode, Sublime, IntelliJ, Jenkins, ArgoCD

Log analyze: Splunk, ELK, ESS

Packages: Pandas, Django, Flask, pyODBC, Boto3, moto, airspeed, pytest, unittest, numpy, scipy, redis, jupyter, cx_oracle, Veritas Volume Manager 3.x, 4.x and 5.x, Veritas cluster server 3.x, 4.x and 5.x.

Databases: Oracle 9i, SQL-Server, PostgreSQL, Redis, DynamoDB, MySQL, MongoDB, RDS