**Suresh V**

**Python/AWS Developer**

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**PROFESSIONAL SUMMARY:**

* 5+ years of experience as a **Python developer** with proficiency in **Python/Django** and **AWS development**.
* Experienced at creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights.
* Proficient with serverless architect especially under AWS Cloud services such as **Lambda**, **Step Functions and DynamoDB.**
* Knowledge on Object Oriented Programming principles and modern software architect.
* Knowledge on traditional web-development with **Python/Django**.
* Experienced with designing and implementing various serverless, fully manage cloud service including **S3**, **Lambda**, **CloudWatch**, **API Gateway**, **Athena**, **SES**, **SNS**, **SQS Step Functions**, **CloudWatch**, **EventBridge** and **DynamoDB.**
* Experienced with developing and implementing customized **RESTful API.**
* Developed Python scripts to take backups of **Elastic Block Storage(EBS)** volumes using **AWS Lambda** and **CloudWatch** and automate AWS services which include Web servers, **ELB**, **Cloud** **Front** **Distribution**, **Database**, **Security groups, S3 bucket** and application configuration.
* Have prior experience managing **swagger** definitions.
* Experienced with initializing and configuring various **AWS EC2 instances** environments including **Window Server**, **Ubuntu** and **Bitnami.**
* Excellent understanding of **Agile** and **Scrum** development methodology.
* Experienced in **Python** to manipulate data for data loading and extraction and worked with python libraries like **Matplotlib**, **NumPy** and **Pandas** for data analysis.
* Equipped with experience in utilizing statistical techniques which include Correlation, Hypothesis modeling, Inferential Statistics as well as data mining and modeling techniques using **Linear** and **Logistic Regression**, **Clustering**, **Decision Trees**, and **K-mean clustering**.
* Experienced with **​Django ​object-relational mapping (​ORM​)** and effectively utilizing various databases types including ​**MySQL, Oracle PL/SQL, SQLite3, AWS Aurora and DynamoDB).**
* Automated recurring reports using **SQL** and **Python** and **visualized** them on BI platform like **Tableau**.
* Experienced in writing **SQL queries**, working knowledge of **RDBMS** like **SQL Server 2008**, **No SQL** databases like **Mongo DB.**
* Utilized complex **SQL** queries for data manipulation.
* Excellent **Team player** and self-starter possess good **communication skills**.
* Experience in various phases of Software Development life cycle (Analysis, Requirements gathering, Designing) with expertise in writing/documenting **Technical Design Document** (TDD), **Functional Specification Document** (FSD), **Test Plans**, GAP Analysis and Source to Target mapping documents.
* Created a fully Automated **Jenkins** Jobs **CI/CD** pipeline Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using **Jenkins/Hudson, and GitHub**.

**TOOLS AND TECHNOLOGIES:**

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| **Languages** | Python, Java, SQL, JavaScript/Typescript, C++, C#, C  |
| **Databases** | MySQL, Oracle PL/SQL, SQLite, MongoDB, AWS DynamoDB |
| **Web Developments**  | Django, REST APIs, SOAP, JSON, XML, HTML, CSS, AWS EC2 with EBS and EFS, AWS S3, AWS Lambda |
| **Tools**  | PyCharm, Visual Studio Code, AWS CDK, AWS boto3, MySQL Workbench, Postman, Putty, RabbitMQ, Tableau, NetWeaver, Business Object, Lumira  |
| **Python Module**  | AWS CDK, boto3, pandas, requests, Http, NumPy, Rest Framework, MySQL Server, Matplotlib, SciPy, re |
| **AWS Service** | Lambda, S3, S3 Select, Athena, SES, SNS, SQS API Gateway, Step Functions, CloudWatch, EventBridge, Glue, Kinesis Firehose, DynamoDB, EC2, RDS |
| **Bug Tracking** **Tools** | Jira, Bugzilla, Slack |

**PROFESSIONAL EXPERIENCE:**

**New Jersey Turnpike Authority, NJ March 2019-Present**

**Role: Python AWS Developer**

**Responsibilities:**

* Designed serverless microservice ETL application with AWS Lambda and S3 using AWS CDK.
* Worked on Amazon EC2 Clusters to deploy files into Buckets.
* Utilized ​Python ​libraries likeBoto3, ​Request, NumPy, ​​Pandas, vladiate for Lambda application.
* Created Lambda event triggers based on AWS S3 and EventBridge.
* Developed application to transform raw data into various structured format including CSV, JSON and XML.
* Created Python scripts to: Totally automate AWS services which includes web servers, ELB, CloudFront distribution, database, EC2 and database security groups, S3 bucket and application.
* Configured AWSSQS and S3 bucket for long-term storage.
* Established logging, error-notification and health-monitoring by taking advantages of AWS Cloud Watch Log, Lambda and AWS SES.
* Developed private API end-point for internal consumption with AWS API Gateway and Lambda.
* Developed orchestration mechanism for the whole work-flow using AWS Step Functions.
* Used EC2 Amazon Linux Instance to resolve runtime environment issue on AWS Lambda Layer.
* Design mass-scale ETL application with AWS Glue, S3 and DynamoDB with AWS CDK.
* Configured Glue crawler for automate data-crawling for input S3 bucket.
* Used Amazon Elastic Beanstalk with Amazon EC2 to deploy project into AWS.
* Designed ETL workflow to expose to internal API end-point pairing with Lambda using DynamoDB for short-life persistent policy and S3 Select and Athena for long term persistent.
* Established workflow to store result into S3 bucket with life cycle policy as cost-effective long-term storage solutions.
* Designed AWS CloudFormation templates to create custom sized VPC, Subnets to ensure successful deployment of Web applications and database templates.
* Configured AWS Kinesis Data Firehose for high-performance data loading to data lake.
* Built and deployed all required service using AWS Python CDK for source control.
* Established pull request policy and branching strategy with Github for version control.
* Used Azure DevOps pipeline with deeply customized script for CI/CD solutions.
* Performing Version Control with, ideally SVN, CVS and GIT.
* Involved in daily ​Scrum ​meetings to keep track of project progress, coordination, guidance and adjustments on project plan/timeline.
* Updated storyboard organized Sprint dashboard and involved in stories grooming for future Sprint planning and preparation.

**Environment:** Python, AWS CDK, Boto3, Window Server, MySQL, AmazonLinux, AWS CLI, PyCharm, VScode, GitHub

**Wolters Kluwer, Houston, TX March 2018 – February 2019**

**Role: Python AWS Developer**

* Used ​Django ORM​ to easily query and manage MySQL ​databases within ​Django.​
* Worked with the CLI on both Windows and Ubuntu 16 to develop, deploy and maintain code.
* Worked in a team environment with distributed version control using Git/Github​.
* Developed customized ​API with token-based authentication for Django using ​Rest Framework​.
* Used virtualenv and pip to work in segregated environments for specific project requirements and to update old technologies.
* Written Terraform templates, Chef Cookbooks pushed them onto Chef for configuring EC2 Instances and Solved Gateway time issue on ELB and moved all the logs to S3 Bucket by using Terraform.
* Developed Angular-based front-end applications for easy accessing, tracking and monitoring inventory system for internal usage with multi-level permission.
* Worked in a fast-paced environment on multiple projects and teams.
* Provisioning AWS EC2 instances with Auto scaling groups, Load Balancers in a newly defined VPC and used Lambda Functions to trigger events in accordance to the requests for Dynamo DB.
* Used EC2 and​ Docker ​containers to deploy applications on ​Amazon Web Services​.
* Involved in Auto Scaling, Elastic Load Balancing and some other VPCs related configurations such as private subnet, routing and peering connection.
* Implemented AWS S3 and EFS for improved efficiency of static storage and file sharing system.
* Involved in all phases of Agile SDLC including analysis, design, development and deployment.
* Involved in ​Scrum ​meetings to keep track of project progress and receive instruction, guidance and adjustments on project plan/timeline.
* Adjusted and followed scheduled plans set for Sprint planning events, prepared Sprint backlogs along with development and final reported for Sprint reviews.
* Tracked and updated development progress retrospectively in timely manner to project manager.
* Involved in migrating applications from EC2 servers to Docker services for the test and dev-environment needs.

**Environment**: Python, Django, Window Server, Ubuntu, Bitnami, AWS CLI, VScode, PyCharm, MySQL Workbench, Docker, GitHub

**Discount Tire, Phoenix, AZ June 2017 – February 2018**

**Role: Python AWS Developer**

* Developed RESTful back-end applications using Django ​models, views, and rest framework.
* Configured customized token-based REST API services for communication with front-end client.
* Integrated with third-party data providers' platform via REST API.
* Created a fully Automated Jenkins Jobs CI/CD pipeline Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using Jenkins/Hudson, and GitHub.
* Involved in back-end logic developments for applications.
* Setting up Elastic Load Balancers (ELB's) and Auto Scaling groups on Production EC2 Instances to build Fault-Tolerant and High Availability applications.
* Worked on CI/CD pipeline for code deployment by engaging different tools (Git, Jenkins, Code Pipeline) in the process right from developer code check-in to Production deployment.
* Initialized data-pipeline for dashboard applications to database from pre-generated query.
* Dealing with Version Controlling tools, GIT for Source Code version management and merging Source code after intermittent Project releases.
* Created S3 buckets, maintained them and utilized the policy management of S3 buckets and Glacier for storage and backup in AWS.
* Generated and published Monthly Reconciliations to AWS S3 with help of Lambda function
* Participated in various finance-related projects for risk assessment and debt market research.
* Involved in all phases of Agile SDLC including analysis, design, development and deployment.
* Involved in ​Scrum ​meetings to keep track of project progress and receive instruction, guidance and adjustments on project plan/timeline.
* Adjusted and followed scheduled plans set for Sprint planning events, prepared Sprint backlogs along with development and final reported for Sprint reviews.
* Tracked and updated development progress retrospectively in timely manner to project manager.

**Environment**: Python, Django, AWS CLI, VScode, PyCharm, MySQL Workbench, GitHub, Tableau

**MICROSOFT CORPORATION, Hyderabad January 2016 – December 2016**

**Role: Python Developer**

**Responsibilities:**

* Complete software development was designed and implemented using Agile Methodology and SCRUM Process.
* Used Flask/Python web-framework to develop application.
* Used MVC framework to build modular & maintainable applications.
* Installed/configured/maintained PostgreSQL database and MongoDB database.
* Develop Interactive front end to visualize data from backend and represent in graphical manner to batter understanding for user.
* Involved in building database Model and Views utilizing Python, in order to build an interactive web-based solution.
* Used machine learning libraries like NumPy, Keras, Theano.
* Used AWS for application deployment and configuration.
* Designed database schema design and defined relationships between tables.
* Provided technical assistance for maintenance, integration and testing of software solutions during development and release processes.
* For version control I have used Gitlab.

**Environment:** Python 2.7,AWS, Flask, GitHub, Ansible, HTML5/CSS, PostgreSQL, MongoDB, S3, EC2, EBS, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA..

**innData Analytics, Visakhapatnam, India February 2015 - December 2015**

**Role: Data Analyst**

**Responsibilities:**

* Developed Python-based applications for error detection and automatic repair issue with database and other server-side applications.
* Also improved data mining processes, resulting in a 20% decrease in time needed to infer insights from customer data used to develop marketing strategies.
* Implemented various CRUD operations for monitoring and diagnosing database conditions.
* Handled daily supporting operations, resolved more than 20 tickets per day on average.
* Involved in business intelligence and data analytical processes for various financial research projects.
* Involved in all phases of ​Agile ​SDLC including analysis, design, development and deployment.
* Generated applications specifications, report guidelines and various documentations.
* Delivered final product in a timely manner while following predefined standards.

**Environment:** Python, Window Server, Ubuntu, PyCharm, MySQL Workbench.