**Venkat T
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1. **387-0847**

**PROFESSIONAL SUMMARY:**

* **Almost Eight years** of experience as a Web/Application Developer and Cloud Engineer in coding with analytical programming using Python, Django, HTML, CSS, and JavaScript.
* Experienced in object-oriented programming (OOP) concepts using Python and PHP.
* Expert in STL containers, Design Patterns, Socket programming, and Multithreading.
* Actively involved in each phase of the software development life cycle (SDLC) experience in Agile Software Methodology.
* Experience in AWS Cloud platform and its features includes **EC2, IAM, EBS Cloudwatch, AWS Config, and AWS S3.**
* Experience working on various **Python packages** such as NumPy, SQL Alchemy, matPlotlib, Beautiful Soup, pickle, PySide, SciPy, and PyTables.
* Experience developing **web-based applications** using Python 2.7/2.6, Django 1.4/1.3, PHP, Angular JS, VB, C++, XML, CSS, HTML, DHTML, JavaScript, and jQuery.
* Experience developing web services **(WSDL, SOAP, and REST)** and consuming web services with Python programming.
* Experience in Python open stack APIs.
* Experience using various version control systems like **Git (GitHub, GitLab, Azure Repos)**.
* In-depth experience in LAMP (Linux, Apache, MySQL, Python) Architecture.
* Good knowledge in working with **application servers** - Apache Server, Tomcat (6.0, 7.0, 8.0), Nginx, WebLogic (10.0, 10.3, 11g), WebSphere (7.0, 8.5).
* Performed Unit testing, Integration Testing, and generating test cases for web applications using Junit and Python Unit test framework Hudson/Jenkins in the builds triggered by each push to GIT.
* Experienced with the integration of **MongoDB and Casandra databases**.
* Experience in Python open stack API.
* Experience with UML diagrams.
* Excellent Experience with various Python-integrated IDEs such as **Sublime Text, Pycharm, Eclipse, and NetBeans.**
* Experience developing web applications by following Model View Control (MVC) Architecture using server-side applications Django, Flask, and Pyramid.
* Hands-on experience in **Unix and Linux Kernels**.
* Hands-on experience in **SVN, Git, and JIRA**.
* Hands-on experience with version control tools like SVN, **GitHub**, and **GitLab**.
* Experience in **SAS/STAT** with linear and logistic regression.
* Working on Server-Side validations using REGEX sent a response using Json, following the OWASP Strategies.
* Good knowledge in various stages of SDLC (Software Development Life Cycle), Software Testing Life Cycle (STLC), and QA methodologies from project definition to post-deployment documentation.
* Defined the problem statement and explored the possibilities of using deep learning algorithms for solution identification in the Higgs Boson simulated dataset.
* Experience using CI tools Hudson, Build Forge, and **Jenkins** for automated builds.
* Hands-on Apache Spark jobs using Scala in the test environment for faster data processing and used Spark SQL for querying.
* Strong knowledge/experience in creating Jenkins **CI pipelines** and good- experience in automating deployment pipelines.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.
* Experience in designing project workflows/pipelines using Jenkins as a CI tool.
* Achieved continuous deployment using IBM **uDeploy**. Integrated uDeploy with Nexus and **Jenkins** to achieve **CD.**
* Hands-on experience with **installation and configuration of Apache Tomcat server.**
* Implemented SonarQube for code quality check and Nexus repository and integrated them into Jenkins to achieve Continuous Integration.
* Good Knowledge in creating processing data pipelines using Kafka and Spark Streaming.
* Assisted in pricing securities, including bonds and mortgages, in programming domains such as C++, MATLAB, and R programming.
* Used SonarQube for code coverage and code quality.
* Experience with Apache Spark ecosystem using Spark-SQL, Data Frames, RDD, and knowledge of Spark MLib.
* Experience writing SQL, Sub Queries, Stored Procedures, Triggers, Cursors, and Functions.
* Good experience with **Python frameworks** like Flask and WebApp2.
* Have Experience in List Comprehensions and Python inbuilt functions such as Map, Filter, and Lambda.
* Experienced in Agile Methodologies, Scrum stories, and sprints experience in a Python-based environment, along with **data analytics, data wrangling,** and **Excel data extracts**.

**TECHNICAL SKILLS:**

* **Programming Languages**: Python-3.5 &amp; 2.7, C, C++, UML (design), Java, SQL and PL/SQL.
* **Python Libraries** : Python, Django, Flask, Beautiful Soup, httplib2, Jinja2, HTML/CSS,

 Bootstrap, jQuery, Numpy, matPlotLib, PySide, Scipy, wxPython, PyTables.

* **Frameworks** : Django, web2py, pyramid, Flask.
* **Databases** : Oracle, MySQL, PostgreSQL, MongoDB,
* **Cloud** **Technologies** : AWS, Rackspace Cloud, Amazon S3.
* **Bug** **Tracking** **Tools** : Jira, Bugzilla, Rational.
* **Protocols** : TCP/IP, HTTP/HTTPS, SOAP, SNMP, SMTP, REST.
* **Methodologies** : Agile, Scrum, and Waterfall.
* **Operating** **Systems** : Linux, Unix, Windows, MAC.

**EDUCATION DETAILS:**

**Bachelor’s** in Engineering (Computers Science Engineering) **Apr 2014**

GITAM University, Vishakapatnam, AP, India

**PROFESSIONAL EXPERIENCE:**

**CBRE, Richardson TX Sep 2022 – Present**

**Python Kafka Lead**

**Responsibilities:**

* Worked on multiple code bases simultaneously.
* Worked heavily on developing the Back end for multiple applications using **Python (Django)**.
* Took part in developing the Front-end using **Angular TS** and **Yarn**.
* Worked in **Postgres database** on simple queries and writing Stored Procedures for normalization.
* Worked with View Sets in **Django-REST framework** to provide web services and consumed web services performing CRUD operations.
* Performed **S3 buckets** creation, policies on IAM role based polices, MFA, and customizing the JSON template
* Prepared **Excel sheets** with all the existing **translations** in the Back-end.
* Worked in SCRUM methodology using **Jira**.
* Created **XML** file to share with multiple **finance systems** like **RECD** and **Peoplesoft**.
* Performed prod hotfix.
* Used various packages like requests, re, Multithreading, Pandas, Numpy, Scipy, and Matplotlib.
* Took part in the entire lifecycle of the projects, including Design, Development, Deployment, Testing Implementation, and support.
* Worked on developing a custom **Kafka pusher** and integrating it with the application.
* Used Django APIs to access the database.
* Worked on developing **Kafka Consumers**
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Wrote Python modules to view and connect **the Apache Cassandra instance**.
* Resolved **common vulnerabilities and exposures** raised by **Snyk**.
* Worked on front-end frameworks like **SCSS** to develop Web applications.
* Implemented web applications in Flask frameworks following MVC architecture.
* Experience using Python collections for manipulating and looping through different user-defined objects.
* Used Unit Test Python library to test many programs on Python and other codes.
* Exceptional skills in developing user-friendly, simple, yet effective web-based applications.
* Deployed various countries to the application.
* Participated in **code reviews**.
* Participated in **sprint planning**.
* Helped juniors by **mentoring** them.
* Extensive experience using version control systems like **Azure repos**, **GitHub**, and **GitLab**.
* Created **webhooks** on **GitHub** and linked them to **Jenkins.**
* Participated in building the **Jenkins pipeline** to deploy code changes to the Dev environment upon completing the **pull request**.
* Involved in debugging the applications monitored on JIRA using **agile methodology**.

**Environment:** Python, Django, HTML5, SCSS, XML, MySQL, TypeScript, Angular JS

**AT&T, Dallas TX Sep 2019 – Sep 2022**

**Python developer**

**Responsibilities:**

* Interacted with the Business team to gather requirements.
* Extensive experience with AWS services like S3, ELB, EBS, Auto-Scaling, Route53, Storefront, IAM, Cloud Watch, RDS, etc.
* Extensively involved in infrastructure as code, execution plans, resource graphs, and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Created **Terraform scripts** for EC2 instances, Elastic Load balancers, and S3 buckets. Implemented Terraform to manage the AWS infrastructure and managed servers using configuration management tools like Chef and Ansible.
* Developed file cleaners using **Python** libraries and made them clean.
* Worked on MVC architecture using **Python as BE**.
* Built numerous Lambda functions using Python and automated the process using the event created.
* Created an **AWS Lambda** architecture to monitor AWS S3 Buckets and trigger a thumbnail create event whenever a user uploads a new picture.
* Worked on packages like **Socket, REST API, and Django**.
* Hands-on experience in migrating Business from a physical data center environment to AWS.
* Experienced in setting up **EC2 instances** and security groups, Setting up databases in AWS using S3bucket, and configuring instance backups to S3 bucket.
* Worked on creating a Custom **Kafka Producer**
* Performed **S3 buckets** creation, policies on IAM role based polices, MFA, and customizing the JSON template
* Automated service and application deployments with ANSIBLE on CentOS and RHEL in AWS.
* Wrote **ANSIBLE Playbooks** with Python, SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python. Run Ansible Scripts to provision Dev servers.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization.
* Deployed the project into **Jenkins using the GIT** version control system.
* Learned to **index and search/query many** documents inside Elastic Search.
* Took part in the entire lifecycle of the projects, including Design, Development, Deployment, Testing Implementation, and support.
* Experience in Python advanced packages and modules like Requests, Scrapy, BeautifulSoup, Multithreading, Pandas, Numpy, Scipy, Matplotlib, wxPython, QT, Regex expressions, SQL Alchemy, SQL-based database connectors JDBC/ODBC and Py-Virtual Environment.
* Understanding of **secure-cloud** configuration, Cloud Trail, **cloud-security** technologies (VPC, Security Groups, etc.), and cloud-permission systems(IAM)
* Experience in Installing **Jenkins**/Plugins for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository, and Deployment of apps using custom modules through Puppet as a **CI/CD Process.**
* Extensive use of version-controlling systems like GIT and SVN.
* Loaded the data into Spark RDD and did in-memory data Computation to generate the Output response.
* Configured and maintained **Jenkins** to implement the **CI process** and integrated the tool with Ant and Maven to schedule the builds.
* Created Maven POMs to automate the build process for the new projects and integrated them with third-party tools like **SonarQube.**
* Responsible for installing and administrating the SonarQube for code quality check and Nexus repository and generating reports for different projects. Also, integrated them into Jenkins.
* Helped to understand the process of SonarQube through Presentations and other business value measurements.
* Prepared scripts to ensure proper data access, manipulation, and reporting functions with R programming languages.
* Formulated procedures for integrating **R programming** plans with data sources and delivery systems.
* Involved in writing queries in **SparkSQL** using Scala.
* Hands-on experience in Apache Spark creating RDDs and Data Frames, applying operations like Transformation and Actions, and converting RDDs to Data Frames.
* Worked with View Sets in **Django-REST framework** to provide web services and consumed web services performing CRUD operations.
* Used Python Library Beautiful Soup 4 for Web Scraping to extract data for building graphs.
* Used **AngularJS** as the development framework to build a single-page application.

**Environment:** Amazon Web Services (AWS), Cloud Environment, Lambda, Dynamo DB, Python 3.4, Django, API Gateway, Java, J2EE, REST API, Spark, Spark API, SparkSQl, Spark Streaming Spring framework, AngularJS, HTML, Amazon S3, CloudWatch, eclipse, MS-SQL Server, GIT, Jira, Jenkins, Confluence.

**American Express, NY Jan 2018 – Aug 2019**

**Python Developer**

**Responsibilities:**

* Used Django Framework in developing web applications to implement the model view controller architecture.
* Developed views and templates with Python and **Django's view controller** and templating language to create a user-friendly website interface.
* Develop consumer-based features and applications using **Python, Django, Flask, Web2py, HTML,** and other web technologies.
* Implemented web applications in Flask frameworks following MVC architecture.
* Worked on front-end frameworks like CSS Bootstrap to develop Web applications.
* Experience using Python collections for manipulating and looping through different user-defined objects.
* Using the Python OS module on the UNIX environment, I made job cloning and forking.
* Created deployment groups in one environment for the Workflows, Worklets, Sessions, Mappings, Source Definitions, and Target Definitions and imported them to other environments.
* Implemented **Bash, Perl, and Python scripting** to Automate many day-to-day tasks.
* Extensive usage of SQL Profiler and Analytics for query optimization and maintenance.
* Created Business Logic using Python to create Planning and Tracking functions.
* Used web services like Amazon Web Services (AWS) EC2, AWS S3, Auto scaling, Cloud watch, and SNS.
* Implemented in Jenkins for Continuous Integration and automating all builds and deployments. Build Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code and Installed and Administered Jenkins CI for Maven Builds.
* Extensively worked on Jenkins by installing, configuring, and maintaining for **Continuous integration**(CI) and for End to End automation for all build and deployments.
* Mentored large scale data and analytics using advanced statistical and machine-learning models.
* Researched and implemented code coverage using SonarQube scanner and runner and unit test plug-ins like find bugs, check style, and JUnit with Maven/Hudson.
* Deploy third party applications using various CI tools like Jenkins.
* Integration of data storage solutions using Django ORM system for MongoDB.
* Used Unit Test Python library to test many programs on Python and other codes.
* Developed and tested dashboard features using CSS, JavaScript, Django, and Bootstrap.

Wrote Stored Procedures in SQL and Scripts in Python for **data loading**.

* Collaborated with a team **QA to build and populate DB** and to ensure the standards.
* Developed and tested dashboard features using **CSS, JavaScript, Django, and Bootstrap**.
* Implemented **RESTful** Web-Services for sending and receiving the data between multiple systems.

**Environment:** Python 3.4,2.7, Django 1.9/1.7, Java 1.7, SQL, JavaScript, Linux, Shell Scripting, Mongo DB HTML, Angular JS, Eclipse jQuery, JSON, XML, CSS, MySQL, Bootstrap, Amazon s3, AWS.

**Genpact, Bengaluru India Nov 2015 – Jul 2016**

**Python Developer**

**Responsibilities:**

* Followed Agile Methodologies to manage the full life-cycle development of the project.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Worked on large-scale, high-traffic Python **web applications** to define and implement new features, enhance core functionality, and integrate with other platforms and services.
* Provided 24x7 support for several host production, QA, and development **OLTP databases** and hundreds of off-site store databases.
* Installation, configuring, upgrading, migrating, and patching of **DB2, Oracle, and SQL Server**.
* Expertise in establishing database connections for Python by configuring packages like **MySQL-Python**.
* Handled potential points of failure through error handling and communication of failure.
* Performed efficient delivery of code based on Test Driven Development (TDD) principles and continuous integration to keep in line with Agile Software Methodology principles.
* Worked on installing and setting up the channels by using Django.
* Used **JavaScript and JSON** to update a portion of a webpage.
* Develop consumer-based features and applications using Python, Django, HTML, Behaviour Driven Development (BDD), and **pair-based programming**.
* Used many regular expressions to match the pattern with the existing one.
* Build SQL queries for various **CRUD operations** like create, update, read, and delete.
* Skilled in using Collections in Python for manipulating and looping through different user-defined objects.
* Performed Unit testing, Integration testing, and web application testing.
* Exceptional skills in developing user-friendly, simple, yet effective web-based applications.
* Deployed the project into **Heroku using the GIT** version control system.

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Bugzilla, JQuery, CSS Bootstrap, Mongo DB, MS SQL Server, Eclipse, Git, GitHub, Linux, Shell Scripting.

**ZENSAR TECHNOLOGIES, Hyderabad, India. May 2014 – Oct 2015**

**Python Developer**

**Responsibilities:**

* Involved in various phases of the Software Development Life Cycle **(SDLC),** such as requirements gathering, modeling, analysis, design, and development.
* Designed and Developed the REST style web services using Python and Flask, Postgres Database.
* Wrote complex SQL queries and **PL/SQL** functions.
* Developed the Command Line Interface **(CLI) tool for Red Hat Linux**.
* Used Python's XML parser architectures (SAX) and DOM API to track small amounts of data without requiring the DB.
* Created the Linux Services to run REST web services using Shell script.
* Build the RPM Package for the Product with the upgrade features support.
* Designed and developed the test cases for **REST API**, Involving REST API test framework development.
* Used Python Library Beautiful Soup for web scraping
* Design and develop test cases for **CLI automation using Python**.
* Involved in Unit testing and developed the unit test cases using the **PyUnit framework**.
* Used Jenkins to deploy web services and run unit tests and REST API tests.
* Worked on **network subnets, VLAN and Routers.**
* Involved in automating creations of VLAN, Trunk port, and Routing.
* Create a branch and Commit the code changes to the Master branch using SVN version control and commands in Linux.

**Environment:** Python, Java, PL/SQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript.