**VINEETH KUMAR**

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**234-738-0297**

**SR.Python Developer**

**Professional Summary:**

* Having 9+ years of experience in the IT industry with proficiency in Analysis, Design & Development Testing of Enterprise Applications and Database Development using, **Python**, **Django**, **Flask** and **SQL** projects.
* Experienced in complete Software Development Life Cycle, and major aspects of technological projects including Requirement Analysis, Design, Development, Database Design, Deployment, Testing, Debugging, and Application Maintenance.
* Working knowledge of OpenCV Image processing
* Hands on Experience in **AWS** like Amazon EC2, Amazon S3, Amazon Redshift, Amazon EMR and Amazon SQS.
* Implemented Spring boot microservices to process the messages into the **Kafka** cluster setup
* Involved in dealing with various development methodologies like Waterfall, Scrum, and Agile.
* Experienced with **WAMP** (Windows, Apache, MySQL, and Python) and **LAMP** (Linux, Apache, MySQL, and Python) Architecture.
* Worked on implementing advanced machine learning models for image processing. Working along with data science team to implement machine learning and artificial intelligence techniques to improve the process and automating IOL cosmetic inspection system.
* Utilized the OpenCV library to write code for shape and color detection.
* Expertise in image processing and Computer Vision
* Hands-on experience in implementing Model View Control (MVC) architecture using server-side applications like **Django** and **Flask** for developing web applications.
* Proficient in**JSON** based **RESTful** web services, and **XML** based **SOAP** web services.
* Worked on various applications using **python** integrated IDEs like Eclipse, IntelliJ, Sublime Text and PyCharm.
* Understanding of **Python** best Practices (PEP-8).
* Experience of working with relational databases like **Oracle**, **SQLite**, **MySQL**, **DB2**
* Experience in project deployment using **Heroku**, **Jenkins** and **Amazon Web Services (AWS)**.
* Worked on various Operating Systems like **UNIX**, **Linux**, **Windows**, and **Mac OS**.
* Sound knowledge with version control systems like **Git**, **GitHub, CVS**, and **SVN** in order to keep the versions and configurations of the code organized.
* Fast learner can quickly incorporate and implement new procedures with efficiency and accuracy
* Highly motivated, dedicated, quick learner and have proven ability to work individually and as a team.
* Excellent written and oral communication skills with results-oriented attitude

**Technical Skills:**

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| --- | --- |
| **Primary Languages** | Python 3.x,2.7/2.4, SQL |
| **Python Framework** | Django, Flask |
| **Python Libraries** | Pandas, NumPy, SciPy, MatPlotlib, urllib2, Networkx, MySQL dB |
| **IDE Tool** | Pycharm, Eclipse, PyDev |
| **Web Technology** | HTML, CSS, Bootstrap |
| **RDBMS** | MS-SQL, MySQL, Oracle |
| **Operating Systems** | Windows Variants, LINUX, UNIX |
| **AWS** | Amazon EC2, S3, RDS, ELB, EBS, Auto Scaling, Lambda, API Gateway |
| **DevOps** | GIT, GITHub, Jenkins, Docker, Ansible |

**Education details:**

Master of Science, Computational Data Science.

**Kent State University | USA.**

Bachelor of Science, Computer Science.

**JNTU | India.**

**Professional Experience:**

**Credit Acceptance | Michigan | May 2022 – till date**

**Role: Python Developer/Data Analyst**

**Responsibilities:**

* Responsible for Design and development of web applications using **Python**. Developed **Python** based **APIs**.
* Developed web-based applications using **Python, Django, Flask, XML, CSS, HTML, DHTML**
* Test and execute all data transformation, extraction, and load activities
* Have been involved in implementing security features for the **API**s.
* Imported data using Sqoop to load data from MySQL to HDFS on regular basis.
* Experience in Amazon Web Services (AWS) Cloud services such as **EC2**, **EBS**, **S3**, **VPC**, and **Elastic Load Balancer**.
* Implemented to reprocess the failure messages in **Kafka** using offset id
* Developed Server-side automation using Node JS scripting and connecting different types of SQL and NoSQL stores from Node JS.
* Developed a proof of concept for predicting cosmetic defects in wafers using image processing algorithm and built a user-friendly operating system with a goal of using a deep-learning model to classify defects on current operator practices.
* Utilized the OpenCV library for image reading, labeling, and saving.
* Imported, analyzed, visualized data by using **Pandas**
* Used **Lambda** function for Infrastructure automation.
* Setup database in **AWS** using **RDS** and configuring backups for **S3** bucket.
* Worked on Amazon **EC2** Clusters to deploy files into Buckets.
* Hands on experience in Amazon Web Services AWS provisioning and good knowledge of AWS services like EC2, S3, Red shift, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS etc. and Azure
* Deployed and tested different modules in **Docker** containers and **GIT**. Implemented programming automations using **Jenkins** and **Ansible** on **Unix/Linux** based OS over cloud like **Docker.**
* Designed and developed asynchronous messaging systems using **JMS, MDB**, and **MQ** series.
* Migrated the Django database from **SQLite** to **MySQL** to PostgreSQL with complete data integrity.
* Deployed the project onto the **Jenkins** server, and organized the configurations and versions of the code using **SVN** version control system.
* Utilized the OpenCV library to write code for shape and color detection.
* Maintained data pipeline up-time of 99.9% while ingesting streaming and transactional data across 7 different primary data sources using Spark, Redshift, S3, and Python.
* Used **AWS** for application deployment and configuration. Responsible for setting up **REST APIs** using **Django**.
* Developed Merge jobs in **Python** in order to extract and load data into **PostgreSQL** database and used Test driven approach for developing applications.
* Creating and maintaining deployment Pipelines, and Airflow **DAGs**
* Knowledge of version control systems (**Git, gerrit)** and modern version control for use in continuous deployments

**Environment**: Python 3.x/2.7, Django, AWS, DevOps,Bootstrap, PostgreSQL, Eclipse, JSON, Shell Scripting, HTML, XHTML, Git, CSS, AJAX, Apache Web Server, My-SQL, Windows, Linux.

**Health Care Service Corporation | Chicago, IL | May 2021 – April 2022**

**Role: Python Developer**

**Responsibilities:**

* Developed **Python** based **API** (RESTful Web Service) to track the events and perform analysis using Django.
* Manage the successful delivery of development projects across the full application lifecycle
* Setup and build **AWS** infrastructure various resources, **VPCEC2**, **S3, IAM**, **EBS**, Security Group, **AutoScaling** and **RDS** in CloudFormation **JSON** templates.
* Handled operations and maintenance support for **AWS** cloud resources which includes launching, maintaining and troubleshooting **EC2** instances**, S3 buckets**, **Virtual Private Clouds (VPC), Elastic LoadBalancers (ELB)** and **Relational Database Services (RDS).**
* Wrote and executed various MySQL database queries from Python using Python-MySQL connector and MySQL dB package
* Used **Postman API** to get a convenient, visual display of query results.
* Integration of **Lambda** with ticketing tools to take automated actions
* Implemented a CI/ CD pipeline with **Docker, Jenkins** and **GitHub** by virtualizing the servers using **Docker** for the Dev and Test environments by achieving needs through configuring automation using Containerization.
* Created **Ansible** playbacks to deploy and automatically scale applications with minimal dependencies
* Used the **AWS -CLI** to suspend **on Aws Lambda** function used **AWS CLI** to automate backup of ephemeral data stores to **S3** buckets **EBS**.
* Created a **Python/Django/Flask** based web application using Python scripting for data processing, **MySQL** for the database, and **HTML/CSS**
* Published and Consumed Contract **SOAP** web services and developed corresponding test cases.
* Utilized the OpenCV library for image reading, labeling.
* Designed and managed **API** system deployment using fast http server and Amazon AWS architecture.
* Developed frontend and backend modules using **Python** on **Django Web** Framework.
* Used AWS for application deployment and configuration.
* Designed and developed the UI of the website using **HTML, AJAX, CSS**
* Performed debugging and troubleshooting the web applications using Subversion version control tool to coordinate team-development.

**Environment**: Python 3.x/2.7, Django, AWS, DevOps, HTML, CSS, SOAP, PyQT, XML, Python SDK, GitHub, My-SQL, Eclipse, Shell Scripting, jQuery, Git, Jira, Windows and LINUX.

**Health Care Service Corporation | Chicago, IL | May 2021 – April 2022**

**Python Developer**

**Description:**

Responsible for dealing with the interchange of data between the server and the users. The essential concentration is the development of all server-side rationale, guaranteeing superior and responsiveness to demands from the front-end and responsible for incorporating the requirements for front-end.

Responsibilities:

•Utilized Active Record eager loading to improve rendering time of index pages, incorporated up/down voting,

reviewing, and several custom sorting methods for shows to provide smooth user experience.

•Supported the development of BI portal using SQL.

•Designed satcom solutions for Vertical markets, conducted POCs for DSNGs with major media houses an

channels.

•Created AWS Security Groups for deploying and configuring AWS EC2 instances.

•Added support for Amazon AWS S3 and RDS to host files and the database into Amazon Cloud.

•Creating snapshots and Amazon machine images of the instances for backup and creating clone instances.

•Worked with Docker components like creating Docker images compose Docker registry and handling multiple images primarily for middleware installations and configurations

•Involved in tokenizing the sensitive data before archiving in AWSS3 using based Enterprise Tokenization service and encrypting the data before sending it over wire to external systems.

•Check the Accuracy of the Data being updated and ensure Perfect Reporting and Verify the Data Accuracy

Through various SQL Queries.Implemented SQL Alchemy as ORM solution to communicate with database.

•Designed and developed data management system using MySQL and wrote several queries to extract/store data.

•Rewrite existing Java application in Python module to deliver certain fo**rmat of data.**

•Wrote Python scripts to parse XML documents and load the data in database.

•Migration of Data from Reports generated by various vendors into PostgreSQL Databases using PostgreSQL Export/Import Procedures.

•Manage the Space and Storage of the Databases through various Shell Scripts scheduled in the corncob

periodically in regular intervals. Write Complex Shell Scripts that automate the Import of Reports to PostgreSQL and MySQL Databases.

•Used NumPy to create tabular timestamp for east timestamp data manipulation and retrieval.

•Good experience in developing web applications and implementing Model View Control (MVC) architecture Using server-side applications like Django.

•Created the Linux Services to run REST web services using Shell script.

**Environment:** Python, Django, PyCharm, AWS, Git, SQL, MYSQL, RESTful, SOA, LINUX, Web Sphere, Tomcat,

WebLogic, Angular.js, Bootstrap, NumPy

**American International Group | Forth-Worth, TX | Aug 2017 – July 2019**

**Role: Python Developer**

**Responsibilities:**

* Gathered and analyzed the requirements and converted them into User Requirement Specifications and Functional Requirement Specifications for the designers and developers to understand them as per their perspective.
* Worked on object oriented programming (OOP) concepts using **Python, Django** and **Linux**.
* Experience with **JSON** based **REST** Web services and Amazon Web Services (**AWS**).
* Added support for Amazon AWS and RDS to host static/media files and the database into **AmazonCloud**.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on **MySQL** and **PostgreSQL** database.
* Worked in **Agile** and **waterfall** methodologies with high quality deliverables delivered on-time.
* Experience with continuous integration and automation using **Jenkins**.
* Experience with **Unit testing**/ Test driven Development (**TDD**), Load Testing.
* Developed the required XML Schema documents and implemented the framework for parsing **XML** documents.
* Involved in Unit testing and Integration testing.
* Worked on **AJAX** framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
* Designed Interface using Bootstrap framework.
* Experience with working on multiple environments like development, testing, production. Excellent analytical and problem-solving skills and ability to work on own besides being valuable and contributing team player.

**Environment:** Python, DJangoPyQT, PyQuery, MySQL, HTML, CSS, Ajax, Web Services (SOAP), XML, PL/SQL, and Oracle SQL Developer

**IBM India Pvt Ltd | Hyderabad, India| Apr 2015 – Jul 2017**

**Role: Python Developer**

**Responsibilities:**

* Daily programming with Python, Linux, and MySQL.
* Responsible for unit testing lambda components in different region and maintain IAM role for different lambda functions.
* Responsible for creating the Lambda’s to maintain the security software and report the findings back to the user if incase of vulnerability.
* Responsible for requirement gathering and building an automated lambda for getting the vulnerability findings and upload them to JIRA.
* Experience writing various REST APIs with object-oriented programming.
* Responsible for testing and deploying the API code in various environments and integrating it with other components.
* Recognize the current application infrastructure and suggest new concepts to improve performance.
* Document the best practices and strategies associated with application deployment and infrastructure support.
* Produce reusable, efficient, and scalable programs, and cost-effective migration strategies.
* Develop different AWS services, including API, RDS instance, and Lambda to build serverless applications.
* Work jointly with the IT team and other departments to migrate web applications to AWS.
* Comfortable to work on tight timelines, when required.
* Working on CICD pipelines.
* Understanding of core AWS services, uses, and AWS architecture best practices.
* Responsible for maintenance and rehydration of the database and monitoring the CloudWatch alarms and PagerDuty alerts.
* Substantial knowledge in Linux/Unix administration.
* Maintained the EFS and S3 for storing the data of all the repositories that are scanned using the security software.

**Environment:** Python, Linux, MySQL, AWS, HTML5, CSS3, JavaScript, AJAX, MongoDB, AngularJS, jQuery, Node JS.