**Aishwarya**

**Python Developer**

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**PROFESSIONAL SUMMARY:**

* Around 7 years of experience as an python developer, software development and design using Python, Django, XML, HTML, DHTML, C#, Oracle PL/SQL, Postgres.
* Experienced in installing, configuring, modifying, testing, and deploying applications with AWS (Amazon Web services).
* Experience in all phases of Software Development Life Cycle (SDLC)-Waterfall, agile Process across various workflows (Requirement study, Analysis, Design, Coding, Testing, Deployment and Maintenance) in Web & Client/Server application development.
* Extensive experience in developing web applications using Python, Django, Flask frameworks.
* Experience in working with several python libraries including Beautiful soup, NumPy, matplotlib, SciPy, PyQt, SQLAlchemy.
* Hands-on experience with industry-standard IDEs like PyCharm, Sublime, NetBeans.
* Extensive experience in developing applications by implementation of web based and client/server application using HTML, Angular JS, Node JS, CSS, JavaScript, and various Java/J2EE technologies.
* Good experience in Shell Scripting, Oracle RDBMS, SQL Server, UNIX and Linux.
* Good knowledge of TCP/IP, UDP, HTTP, HTTPS, SSH and SSL protocols.
* Expert at version control systems like Git, SVN and CVS, Migrated repos from svn to Github.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle, MYSQL Server.
* Experience with source code testing frameworks like JUnit, PyUnit.
* Experience with Kubernetes cluster administration and Stateful sets
* Experience object-oriented programming (OOP) concepts using Python.
* Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, jQuery and JavaScript.
* Good experience in working with Amazon Web Services (AWS) like AWS EC2, S3, VPC, SES, ELB, EBS, RDS, Glacier, DynamoDB…etc.
* Good knowledge on C, C++ languages including threads, templates, Polymorphism and OO concepts.
* Experience in using XML, SOAP, REST web Service for interoperable software applications.
* Extensive experience in Web front-end and back-end test automation using Java, JavaScript, Selenium WebDriver, and Robot Framework
* Hands-on experience with bug tracking tools JIRA and Bugzilla.
* Experience in Agile development processes ensuring rapid and high-quality software delivery
* Experience working on Azure Cloud services, Azure storage, Azure CLI, Azure Active Directory and Azure Service Bus. Managing Client's Confidential Azure based PaaS and IAAS environment.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.

**TECHNICAL SKILLS:**

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| **Programming Languages** | Python, Java, C, Scala |
| **Web Technologies** | HTML5, CSS3, XML, Bootstrap3, AJAX, and Dom, Spring Boot, jQuery, Angular.js, Bootstrap. |
| **Web Servers** | Web Sphere, JBoss, WebLogic, Apache Tomcat, |
| **Application Server** | Tomcat, SOAP, RESTful services, SOA |
| **Databases** | SQL, MySQL, Oracle, MongoDB |
| **Frameworks** | Django, Flask, Pyramid |
| **Tools & IDE** | Visual Studio, Eclipse, PyTest, PyCharm, XCode, Idle |
| **Python Libraries** | NumPy, Pandas, matplotlib |
| **Operating systems** | Windows, Linux |
| **Automation tools** | Jenkins, chef, Puppet, Ansible, Docker, Kubernetes, Terraform. |
| **Methodologies** | Agile, Scrum, Waterfall |
| **Cloud services** | AWS S3, EC2, Amazon EMR, Google cloud Platform |
| **Monitoring Tools** | Splunk, CloudWatch |

**PROFESSIONAL EXPERIENCE:**

**Freddie Mac – McLean, VA August 2021 - current**

**Python/Aws Developer**

**Description:** Worked on the Amazon native grid project using pytest and python for test automation framework.

**Responsibilities:**

* Developed the test automation framework and have extensive knowledge and strong coding skills on Python, Shell.
* Experienced in developing and executing manual and automated tests in different platforms using **Python, Pytest.**
* Experienced in writing Test Plans, defining Test Scenarios and Test Cases, developing and maintaining test scripts, analyzing bugs, interacting with development team and track the bugs till closure.
* Proficient in overall Defect Management/Problem solving including tracking bugs and reporting using Jira**.**
* Developed test strategy for the minimal required tests that provides value in determining the quality state of the application.
* Develop and further maintain and improve our automation testing framework, automation tests
* Help coordinate testing efforts with Business Development, Product Management and other stakeholders
* Take over and further maintain and improve our automation testing framework, automation tests
* Extensively worked using AWS services along with wide and in depth understanding of each one of them.
* Worked on the AWS Dynamo db to lookup for jobid, tasks using boto3.
* Implemented context manager in pytest using python.
* Hands on experience on EC2 to check the scaling of instances.
* Experienced with installation of AWS CLI to control various AWS services through SHELL/BASH scripting.
* Worked extensively on AWS services like S3, cloud watch logs, and Simple Queue Service (SQS).
* Worked on AWS step functions, Lambda, and Service catalog.
* Experienced in using **Jenkins** as a Continuous Integration server to configure with **Git/Github repository**.
* Ability to adopt to new methodologies, tools and technologies and domains depending on the job responsibilities.

**Environment**: Python 3, test automation framework, PyTest, Amazon Web Services (AWS), boto3, Linux, Shell Scripting, NumPy.

**Wells Fargo - Summit, New Jersey Dec 2019 – July 2021**

**Python/Aws Developer**

**Description:** Worked on the improvement of customer support and complaints enrollment system differently. This is a Post deals and Customer input and complaints management system. Responsible for observing and supporting an incredible number of specialized administrations.

**Responsibilities:**

* Developed and designed an API (RESTful Web Service) for the company’s website.
* Hands-on configuring applications on AWS EC2 instances and the stage on S3 buckets. Perform S3 buckets creation, policies and IAM role-based policies and configuring user access levels.
* Utilized Python Libraries like Boto3, NumPy for AWS.
* Hands-on experience using IAM for creating roles, users, groups, and MFA to provide additional security to AWS accounts and its resources.
* Server-based Node.js development
* Worked on CSV files while trying to get input from the MySQL database.
* Using raw files loaded data files from URLs to Amazon S3 Bucket.
* Experienced in developing web-based applications using Python, Flask, PHP, Django , XML.
* Develop consumer-based features and applications using Python and Django in test driven Development and pair-based programming.
* Container management using Docker by writing Docker files and setting up the automated build on Docker HUB and installing and configuring Kubernetes.
* Developed AWS Lambda functions in Python using S3 and SQS triggers to automate workflows and developed Python scripts to store and retrieve objects in AWS S3 buckets. Developed scripts in Python using boto3 API to retrieve messages from various events.
* Using Django evolution and manual SQL modifications was able to modify Django models while retaining all data, while the site was in production mode.
* Automated setting up server infrastructure for the DevOps services, using Ansible, shell and python scripts.
* Worked on reading queues in Amazon SQS, which have paths to files in Amazon S3 Bucket.
* Aggregate clean files in Amazon S3.
* Designed and developed MVC applications for OpenStack.
* Used Amazon EMR for map reduction jobs and tested locally using Jenkins.
* Used Azure Container Services with Kubernetes for Orchestrating the servers.
* Also worked on Amazon EC2 Clusters to deploy files into Buckets. Designed a python script to load transformed data into cloud services (AWS, Azure, and GCP ).
* Developed and maintained the Verification and Validation group's project schedules and roadmap ensuring project on schedule.
* Experienced in Agile Methodologies and SCRUM Process.
* Exported/Imported data between various data sources.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker, Ansible, and Terraform
* Created database using MySQL, wrote several queries to extract/store data.

**Environment**: Python 3, Django, Docker, PyTest , Finops, Node JS, Kubernetes, Microservices, HTML5, CSS, XML, JSON, JavaScript, JQuery, Bootstrap, PostgreSQL, JavaScript, Subversion, Amazon Web Services (AWS), REST API, QA, Linux, Shell Scripting, NumPy.

**Anthem - Norfolk, VA March 2018 - Nov2019**

**Python Developer**

**Description**: In this project worked on the improvement of customer support and complaints enrolment systems for different reasons. This is a Post deals and Customer input and complaints management system. Responsible for observing and supporting an incredible number of specialized administrations

**Responsibilities:**

* Worked in Agile development following Scrum process, Sprint and daily stand-up meetings
* Developed Views and Templates with Django view controller and template language to create a user-friendly website interface.
* Worked on frontend and backend modules using Python on Django Web Framework.
* Created application structure based on Angular style guides and best practices
* Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS
* Design and Developed Web Services, RESTful API’s for Mobile Apps using Python Django-REST and Flask Frameworks
* Developed complex database objects like stored Procedures, Functions, Packages, and triggers using SQL and PL/SQL.
* Created a Lambda Deployment function, and configured it to receive events from your S3 bucket
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, and jQuery.
* Extensively used the advanced features of PL/SQL like records, Tables, Object types and Dynamic Sql.
* Created APIs, database Model and Views Utilization Python to build responsive web page applications.
* Used GitHub for Python source code version control, Jenkins for automating the build Docker containers, and deploying in Mesos
* Develop GUI in C#/HTML5 and write regression tests to verify that they work
* Developed multiple React Redux based pages that provided functionality for Login/Logout, display of vendor data like vendor opportunity, top vendors, a tile-based display of important overview information, summary metrics etc.
* Designed and implemented a dedicated MySQL database server to drive the web apps and report on daily progress.
* Used PyUnit, the Python unit test framework, for all Python applications. Works closely with product development team during all phases of product testing
* Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Developed Complex database objects like Stored Procedures, Functions, Packages and Triggers using SQL.
* Worked on Jenkins continuous integration tool for deployment of projects. Hand-on experience in Microsoft Azure cloud platform and merge with python
* Used Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple namespaced versions.
* Design and implement availability, scalability, and performance plans for the cloud managed service environment.
* Extensively used bulk collection in PL/SQL objects for improving the performance.
* Used Git for the version control.
* Used GitHub for Python source code version control, Jenkins for automating the build of Docker containers, and deploying in Mesos.
* Node.js as deployed on Lambda
* Develop scripts to automate the execution of ETL using shell scripts under Unix environment.
* Involved in business analysis and technical design sessions with business and technical staff to develop requirements document and ETL design specifications.
* Collaborated with internal teams and external teams to solve the issues and give feedback.
* Worked on object-oriented programming (OOP) concepts using Python, Django and Linux.
* Used JIRA for bug tracking and issue tracking. Created Non-Prod and Prod Environments in Azure from scratch .
* Practical experience with working on multiple environments like development, testing, production.

**Environment:** Python, Django, ETL, HTML5/CSS, MySQL, OAuth, OIDC, PyTest , CI/CD pipeline, Node JS, JavaScript, Eclipse, Linux, Shell Scripting, Ansible, jQuery, AWS, GitHub, JIRA, MS Office, and UNIX.

**Kroger - Blue Ash, OHIO Jan 2016 –Mar 2018**

**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 responsibility for incorporating the requirements for the front-end.

**Responsibilities:**

* Writing REST APIs, as part of developing web-based applications for insurance premium calculations, using Django's REST framework.
* Experience in developing web applications and implementing Model View Control (MVC) architecture using server-side applications like Django, Flask and Pyramid
* Used Django configuration to manage URLs and application parameters.
* Working experience in creating REST web service protocols in python to access AWS.
* Correspondingly involved in writing REST APIs using Django framework for data exchange and business logic implementation.
* Designed and created backend data access modules using PL/SQL stored procedures.
* Good experience in writing SQL Queries and implementing stored procedures, functions, packages, tables, views, cursors, triggers.
* Worked with Docker components like creating Docker images compose Docker registry and handling multiple images primarily for middleware installations and configurations
* Written and developed scripts for automating tasks using Jenkins and UNIX shell scripting
* Responsible for using the AWS tools like RDS, Cloud watch, EC2, Elastic load Balancer, Route53, KMS, SNS, S3, Lambda Functions, IAM.
* Used Jenkins for continuous integration for code quality inspection and worked on building local repository mirror and source code management using Git hub.
* Assisted the development team in sending the correct data via query strings using PostgreSQL as the backend for storing data.
* Responsible for debugging the project monitored on JIRA.
* Actively worked as a part of a team with managers and other staff to meet the goals of the project in the stipulated time.
* Extensive use of version controlling systems like GIT and SVN.

**Environment:** Python 2.7 and 3.6, Django 1.8, MongoDB, MySQL, AJAX, SOAP, REST, Flask, Active Directory, Docker, HTML5, CSS3, JavaScript, JSON, UI, XML, CI/CD pipeline, Angular, Ajax, Bash, Shell Script, ORM, RDS, Cloud watch, EC2, Elastic load Balancer, Route53, KMS, SNS, S3, Lambda Functions, IAM.

**Orion Limited - Hyderabad, India Aug 2014 - Nov 2015**

**Python Developer**

**Roles & Responsibilities:**

* Gathered requirements, system analysis, design, development, testing and deployment.
* Developed user interface using CSS, HTML, JavaScript and jQuery.
* Wrote Python modules to extract/load asset data from the MySQL source database.
* Designed and implemented a dedicated MYSQL database server to drive the web apps and report on daily progress.
* Developed views and templates with Python and Django & view controllers and templating language to create a user-friendly website interface.
* Used Django framework for application development.
* Created the entire application using Python, Django, MySQL and Linux.
* Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Created most important Business Rules which are useful for the scope of project and- needs of customers.
* Improved performance by using a more modularized approach and using more in-built methods.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Performed data manipulation/storage for incoming test data using lxml /etree libraries.
* Developed API modularizing existing python modules with the help of pyyaml libraries.
* Wrote unit test cases for testing tools.
* Created a database using MySQL, wrote several queries to extract/store data.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* Performed research to explore and identify new technological platforms.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.

**Environment:** Python 2.7, Django 1.4, Puppet Rspec, Jenkins, Grafana/Graphite, MySQL, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Git, Perl, Cassandra.