**RAJA MANOJ**

**PROFESSIONAL SUMMARY**

* Over 6 Years of Experience as A Software Developer and Coding with Analytical Programming and Client Server Enterprise-Applications Using Python, Django And Flask, My SQL, Unix and Linux.
* Proficient in Object Oriented Design Experience, With Extensive Experience of Python-C/C++ Binding Using Boost Python and Python C Types.
* Experiences with File Handling and SSH (Secure Shell).
* Working Knowledge of Errors and Exceptions Handling Debugging Using Pdb, Eclipse and Pycharm.
* Experience with Docker, Deployment of Application Inside Software Containers.
* Experience in Writing Sub Queries, Stored Procedures, Triggers, Cursors, And Functions on MySQL, Postgre SQL And Alchemy Databases.
* Excellent Debugging, Problem Solving, Optimization and Testing Skills Using Gitlab
* Experience in Python Development and Scientific Programing.
* Experience in Using Numpy And Pandas in Python for Data Manipulation.
* Experience in Using Scikit-Learn and Stats models In Python for Machine Learning and Data Mining.
* Worked on Automation Process of Testing Python Code and Deployment Using Devops Tool Jenkins.
* Experience with SQL Server Management Studio, SQL Developer, Toad and MySQL, GUI Tool
* Experience with NoSQL Database Such as Mongo DB.
* Good Experience in Reusing Code and Writing Testing Script for Automation for Deploying Application Using Different Framework.
* Experiences Designing, Configuring and Deploying Amazon Web Services (Aws) For Multiple Applications.
* Highly Proficient in Understanding New Technologies and Adopt at Building Strong Working Relationships with Co-Workers and Management.
* A Good Team Player with A Clear Understanding of Business Needs. Experiences with Agile and Jira.

**EDUCATION**

Bachelor of Science (Marine Engineering) from Birla Institute of Technology and Science

Master of Science (Information Security Systems) from University of Cumberlands.

**Professional Experience**

**CME Groups, Chicago, IL Oct 2017 – Aug 2018**

**Python Developer**

The goal of this project is to provide support and coordination for web services applications written in python, Oracle Service bus, Perl, and .Net. Provide guidance and support in the development of web services applications including support at all system layers, including data, processing, and front-end systems. To fulfill this goal, we had to resolve issues regarding operations, implementations, and system status. Research and recommend strategies for department direction on Operational Management Systems, technical interfaces, automated system solutions, and servers programmatically.

**Responsibilities:**

* Developed and tested many features for dashboard using Python, Bootstrap, and CSS.
* Implemented business logic using Python/Django.
* Worked with millions of database records daily, finding common errors and bad data patterns and fixing them.
* Worked on Python Open stack API’s, used Python scripts to update content in the database and manipulate files
* Exported/Imported data between different data sources using SQL Server Management Studio.
* Maintained program libraries, users' manuals and technical documentation.
* Managed large datasets using Panda data frames and MySQL.
* Wrote and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Built various graphs for business decision-making using Python Matplotlib library.
* Fetched twitter feeds for certain important keyword using Python-twitter library.
* Used Python library Beautiful Soup for web scrapping.ss.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Developed and designed automation framework using Python and Shell scripting.
* Deployed with Fabric on AWS on EC2 instance with Postgres RDS and S3 file storage.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL DB package
* Created most important Business Rules which are useful for the scope of project and needs of customers.
* Work with team of developers on Python applications for RISK management.
* Took part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistics Analysis.
* Followed Agile Methodologies and SCRUM Process.
* Worked in development of applications especially in UNIX environment and familiar with all of its commands.
* Refactored existing project to make it more RESTful and thread-safe.
* Added unit tests and improved existing ones.

**Environment:** Python 2.7, Git, Django 1.8, PySpark, Flask, AWS, Jenkins, MYSQL, MongoDB, JQuery, SQL Alchemy.

**DTCC (Depository Trust and Clearing Corporation), Jersey City, NJ Oct 2016– Sep 2017**

**Python Developer**

The Goal of this project is to provide a platform for clients to report their details of trades to regulators by validating, processing the info. To fulfill this goal, we created a regulatory repository and reporting service for OTC(Over-the-counter) and ETD (Exchange-traded derivatives) trades. also developed web applications to calculate and consolidate the trade info and report to regulators for verification.

**Responsibilities:**

* Used Python Flask framework to build web application.
* Used Python to control the backend logic of the web application.
* Scraping website using Python Beautiful Soup, and then parsed it with xml.
* Wrote Automation script in python using Jenkins to save News Feed data into AWS.
* Worked with Automatic deployment using Jenkins and Testing code using Jenkins plugins
* Querying data from DynamoDB and use them as input for the machine learning models
* Jenkins use for testing python code and automation of code deployment in AWS
* Configured Jenkins for doing the build in all the non-production and production environments.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
* Used JavaScript and JSON to update a portion of a webpage.
* Developed Python web services for processing JSON and interfacing with the Data layer.
* Increased the speed of pre-existing search indexes through Django ORM optimizations.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.
* Engaged in Design, Development, Deployment, Testing and Implementation and worked in development of applications especially in UNIX environment with shell.

**Environment**: Python, Git, AWS, Linux, Object Oriented Programming, Web Services, Python 2.7,

Shell scripting, Linux, Testing, Debugging, NAS

**HSBC, India June 2015 – July 2016**

**Software Developer**

**Responsibilities:**

* Used Python, Django and Zope frameworks to develop applications.
* Implemented business logic using Python.
* Worked on front end frame works like Bootstrap for responsive webpages.
* Developed and executed various database queries from python using Python-MySQL connector and MySQL database package.
* Implemented Scipy which is a python library for complete access over SQL.
* Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.
* Fetched twitter feeds for certain important keywords using python-twitter library.
* Used AJAX and JQuery for transmitting JSON data objects between frontend and controllers.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Implemented monitoring and established best practices around using elastic search.
* Install and configuring monitoring scripts for AWS EC2 instances.
* Worked with the design team for project structure.
* Created a Git repository and added the project to GitHub.
* Wrote Python scripts to parse XML and JSON documents and load the data in database.
* All projects adhered to agile principles to deliver commitments, meet acceptance criteria and ensure fast releases.

**Environment:** Python 2.7, Git, Django 1.8, PySpark, Flask, AWS, Jenkins, MYSQL, MongoDB, SQLAlchemy, JQuery.

**Continental, Bangalore, INDIA Apr 2013 – Jun 2015**

**Python Developer**

**Responsibilities:**

* Developed Python application for Google Analytics aggregation and reporting. Also used Django configuration to manage URLs and application parameters.
* Used Python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Used Pandas library for statistical Analysis.
* Developed tools using Python, Shell scripting to automate some of the menial tasks.
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Worked very closely with designer, tightly integrating Flash into the CMS with the use of Flashvars stored in the Django models.
* Used Django configuration to manage URLs and application parameters.
* Wrote and executed various database queries from Python using Python-MySQL connector and MySQL DB package.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Responsible for debugging the project monitored on JIRA (Agile).
* Designing and creating low level libraries and helper libraries for the automation tool.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.

**Environment:** Python 2.7, JIRA, Git, Django 1.8, PySpark, Flask, AWS, Jenkins, MYSQL, MongoDB, SQLAlchemy, JQuery.

**HUAWEI, Bangalore, INDIA July 2012 – Mar 2013**

**Software Developer**

**Responsibilities:**

* Involved in Web application penetration testing process, web crawling process to detect and exploit SQL Injections Vulnerabilities.
* Wrote Test Automation Script for deployment of AWS and Company Web API, using python package, puppet configuration tool to update and check historical pumping data from AWS. Compare the existing data and historical data and create performance chart for client.
* Worked with automation team to automate deployment using Jenkins.
* Wrote automate Python Script for testing program to store machine detection alarm when Pump experience overloading to Amazon cloud.
* Wrote program to fetch data and from amazon cloud and send the client according their requirement.
* Passed query and wrote script to automate machine alarm data with timestamp to engineer.
* Used Python and Pandas library, built data analysis graph for documentation and record.
* Worked with Blender script, built add-on and customization of blender interface.
* Used SPSS tool for statistical programming and computational techniques for large data sets and quantitative analysis.
* Used SPSS tool for Visualization techniques for summarizing complex data analysis using Python.
* Independently developed and implemented analysis workflow and quality practices, including workflow optimization, process standardization, configuration management of analysis files and software, and verification and validation (V&V) of models.
* Using Numerical equation, built application and do 2D- finite Element analysis using python language
* Used Django database API's to access database objects.
* Generated graphical reports using python package Numpy and MatPlotLib.
* Representation of the system in hierarchy form by defining the components, subcomponents using Python and developed set of library functions over the system based on the user needs.
* Development of Python APIs to dump the array structures in the Processor at the failure point for debugging.
* Extracted the actual data of HTML format and predicted raw data; interpreted and stored predicted one in well-organized JSON files.
* Wrote programs to parse excel file and process many user data with data validations.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Maintained data with different levels of access privileges.

**Environment:** Python 2.7, Git, Django 1.8, PySpark, Flask, AWS, Jenkins, MYSQL, MongoDB, SQLAlchemy, JQuery.