**Kajal Arora RESUME**

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**PROFESSIONAL SUMMARY:**

* 8+ years of professional experience as a **Python Developer**, proficient coder in multiple languages and experience in Design, Development, Implementation of **Python, Django, Flask, Pyramid** and **client**-**server** **technologies-based applications, RESTful services, AWS, C, C++, JAVA** and **SQL**.
* Hands-on-experience on python web application development using **Django** and **Serverless** **framework**.
* Worked in Python Integrated Development Environments like **NetBeans, PyDev, PyCharm** and **Sublime** **Text**.
* Experienced in developing web-based applications using **Python, Django, XML, CSS, HTML** and **JavaScript**.
* Experience in developing python scripts for automation and performing functional tests and data validation.
* Excellent knowledge of OOPS, Multi-Threading and Collections concepts and in Python. Used Pandas library for Statistical Analysis.
* Experience in data analysis and machine learning techniques with hands-on-experience on various python libraries like **NumPy/Pandas/SciPy**.
* Developed web applications and **RESTful** **web** **services** and **APIs** using **Python** **Flask, Django, Pyramid**.
* Designed and managed **API** system deployment using fast http server T and **Amazon AWS architecture**.
* Extensive knowledge in relational and non-relational databases **MySQL, Cassandra, Mongo db**.
* Worked with **MVW** **frameworks** like **Django, Angular JS, HTML, CSS, XML, Java Script, jQuery, Bootstrap, JSON**.
* Wrote **REST APIs** in python for large-scale applications.
* Experience in building **frameworks** and **automating** **complex** workflows using **Python** for **Test** **Automation**.
* Good working Experience in **Agile (SCRUM)** using **Rally** and **TFS, RUP** and **Waterfall** **methodologies** with high quality deliverables delivered on-time.
* Good at automating repetitive work through **Shell** **scripts** and **Python**.
* Experience in Creation and managing user accounts, security, rights, disk space and process monitoring in **Solaris** and **Red hat Linux**.
* Experience in Building and deploying the applications on **OpenShift Pods**.
* Configured **Secrets, config maps, services** and routes in **OpenShift**.
* Familiar with **JSON** based **REST** **Web** **services** and **Amazon** **Web** **services**.
* Experienced in developing **Web** **Services** with **Python** **programming** **language**.
* Working with **backend python automation, CI pipelines, Docker** and **cloud** **provisioning/automation**.
* Actively involved in each phase of **software Development life cycle (SDLC)** and experience in **Agile Software Methodology**.
* Having experience in **Agile Methodologies, Scrum stories** and sprints experience in a Python based environment and **Excel data extracts**.
* Built all database mapping classes using **Django** **models** and **Cassandra**.
* Created the **Automation** **scripts** using Python for testing applications as well as the integration of these application **(API's &UI's)** based on **REST calls** using Python, phrasing the JSON responses
* Performed research to explore and identify new technological platforms.
* Created Data layer in **MYSQL**.
* Extracted and loaded data using Python scripts and **PL/SQL packages**.
* Migrated applications to the **AWS** **cloud** and Involved in **DevOps** processes for build and deploy systems.
* Build and lead **POCs** for tools for internal use to support **DevOps** best practices using **Docker** for Container based Virtualization and documenting with **MS Word** and **SnagIt**.
* Worked on creating the **Docker** containers and **Docker** consoles for managing the application life.
* Actively involved in each phase of **Software Development Life Cycle (SDLC**) and experience in Agile Software Methodology.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Languages** | C, C++, Python, JavaScript, PHP, XML, JAVA, SQL |
| **SCM Tools** | Subversion, Perforce, Jenkins/Hudson, Sonar, Jira, TFS, Confluence, Clear Case, GIT, GitHub |
| **Build Tools** | Ant, Maven, Make |
| **Operating Systems** | UNIX, Linux, Solaris, Windows, DOS, VMware |
| **Protocols** | OSI Reference Model, IPv4 and IPv6 addressing and subnetting, Ethernet LAN, TCP/IP, DNS, HTTP, NFS, SSL, SSH, UDP, switches, routing concepts, virtual network concepts including VLANs, TCP/IP stack for virtualization, IPVP4, IPV6, FTP, Intranet |
| **Database** | PostgreSQL, MS Access, SQL Server, MYSQL and Sybase, Oracle, DB2, JDBC, ODBC |
| **Application Servers** | Web logic, JBoss, IBM WebSphere, Apache tomcat5.5, IIS |
| **Issue Tracking Tools** | ATLASSIAN JIRA, BUGZILLA, Mantis, Service Now |
| **Delivery Tools** | Saltstack, Chef & Puppet |

**WORK EXPERIENCE:**

**CISCO Systems INC, San Jose, CA Mar 2017 to Present**

**Sr. Python Developer**

**Responsibilities:**

* Responsible for gathering requirements**, system analysis**, design, development, **testing** and deployment.
* Developed Business Logic using **Python** on **Django** **Web Framework.**
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Created Python script to monitor server load performance in production environment and horizontally scale the servers by deploying new instances.
* Proficiency with **AWS** Technologies like (e.g. EC2, RDS, DynamoDB, ELB, Lambda, S3, IAM, CloudWatch, KMS, SNS, SQS)
* Wrote Python routines to log into the websites and fetch data for selected options.
* Developed entire frontend and backend modules using Python on **Django** **Web** **Framework**.
* Used **Django** Database **API's** to access database objects.
* Used Restful **API's** with **JSON**, **XML** to extract Network traffic information.
* Created the **Automation** **scripts** using **Python** for testing applications as well as the integration of these **application (API's &UI's)** based on **REST** **calls** using Python, phrasing the **JSON** responses.
* Implemented **RESTful** **Web** **Services** to retrieve data from client side using Micro Services architecture.
* Used JSON based and **RESTful** **API** for information extraction.
* Experience in working with **AWS** services like S3, EBL, ESB, Autoscaling, cloud Watch, RDS etc.
* Managed large datasets using Panda data frames and **PostgreSQL**.
* Designed and developed data management system using **PostgreSQL**.
* Integrated application with 3rd party **APIs (Google, Facebook, Stripe, PayPal, Google's Natural language API).**
* Creating the **API** with the **Serverless** **framework**, in **Python 3.6.**
* Configured and maintained **Jenkins** to implement the **CI** **process** and integrated the tool with Ant and Maven to
* schedule the builds.
* Working on MVC architecture using **Python**, **PHP** AS controller.
* Created reproducible builds of the **Kubernetes**applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Container management using Docker by writing **Docker files**and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Worked on **Agile** **Methodologies, Scrum stories** and sprints experience in a **Python** based environment.
* Used **GitHub** for **Python** source code version control, Jenkins for automating the build **Docker** containers.
* Responsible for installing and administrating the **SonarQube** for code quality check.
* Used **MySQL** as backend database and **MySQL** **dB** of python as database connector to interact with **MySQL** server.
* Version control using **GitHub**.
* Involved in writing queries in **SparkSQL** using **Scala.**
* Involved in writing stored procedures using **MySQL**.

**ENVIRONMENT:**

Python 3, Django, Jenkins, Linux, HTML, CSS, JSON, Restful Web Services, JavaScript, Serverless framework, PostgreSQL, MySQL, Docker, Amazon Web Services (AWS), REST API, SPARK, Jenkins, Eclipse, CloudWatch, GIT,

LAMBA, Kubernetes, Docker.

**Santander Bank, Dorchester, MA Feb 2016 to Feb 2017**

**Sr. Python Developer**

**Responsibilities:**

* Gathering requirements and trasnslating the Business details into Technical design for developing **CRITs** tool.
* Participated in all the stages of **software development lifecycle (SDLC)** like design, development and implementation and testing.
* Developed entire frontend and backend modules using Python on **Django Web Framework** by implementing **MVC** **architecture**.
* Implemented first-hand the best/worst practices for integrating Micro Services into existing system architecture.
* Micro Services were being used as a strategy to gradually replace a core monolithic application while still adding business features.
* Used **Pivotal Cloud Foundry** to deploy **Micro** **Service** **applications**.
* Involved in conducting trainings to user on interact, filter, sort and customize views on an existing visualization generated thru **Tableau** **desktop**.
* Experience in **Data analysis** and mapping, creation and usage of metadata.
* Utilized **Apache Spark** with Python to develop and execute **Big Data Analytics** and **Machine learning** applications, executed machine Learning use cases under **Spark ML.**
* Data sources are extracted, transformed and loaded to generate CSV data files with **Python** programming and **SQL queries.**
* Experience in Building and deploying the applications on **OpenShift** **Pods**.
* Configured **Secrets, config maps, services and routes** in **OpenShift.**
* Automation of **OpenShift** operations using Jenkins as orchestrating tool.
* Creating Jenkins jobs for automation of **Devops** tools.
* Created Advance connections, join new tables, create & manage Extract and Monitor Queries using **SQL Assistant**.
* Defended the dashboard requirements and provided the best practices/approach to perform **ETL** and publish data to the **reports/dashboards**.
* Used Python based GUI components for the front-end functionality such as selection criteria. Administration of dedicated collocated **RHEL 4** machine and configured complex **Apache** **configuration** files.
* Familiar with **UNIX / Linux** internals, basic cryptography & security
* Generated graphical reports using python package **NumPy** and **Matplotlib**.
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.
* Install and configure **IBM HTTP** **Server**, test the installation, map the default application to use the **Web** Server and regenerate the plug-in configuration file.
* Install and configure **WebSphere** **Portal v7.0** in **Windows** and **Linux** environment.
* Administer **WebSphere** **Message** **Broker** and **WebSphere** **MQ** **Series** **Administrations** in **Windows** and **Linux** environment
* Performed efficient delivery of code based on principles of **Test Driven Development (TDD)** and continuous integration to keep in line with Agile Software Methodology principles.
* Created **PHP**/**MySQL** back-end for data entry from **Flash.**
* Used Python based **GUI** components for the front-end functionality such as selection criteria.
* Managing **Amazon Web Services (AWS)** infrastructure with automation and configuration management tools such as **uDeploy**, **Puppet** or custom-built. Designing cloud-hosted solutions, specific **AWS** product suite experience.
* Implemented secured way of Centralized login for **AWS** users using 389 Directory Services (LDAP) and **OpenVPN.**
* Used **Amazon Web Services (AWS)** for improved efficiency of storage and fast access.
* Added support for **Amazon AWS S3** and **RDS** to host static/media files and the database into Amazon Cloud.
* Involved in front end and utilized Bootstrap and Angular.js for page design.
* Responsible for Plug-in Management, User Management and Backup**/Disaster Recovery Plan/Implementation (BDR)** on Jenkins.

**ENVIRONMENT:**

Python 3.4/2.7, Django 1.7, CherryPy, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, RESTful webservice, MongoDB, MySQL, jQuery SQLite, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Illumina Inc, San Diego, CA Sep 2013 to Nov 2015**

**Python Developer**

**Responsibilities:**

* Involved in preparing engineering
* system using Git, Jenkins, MySQL and custom tools developed in **Python** and **Bash**.
* Designed and managed **API** system deployment using fast http server and **Amazon AWS architecture**.
* Develop consumer-based features and applications using **Python, Flask, HTML** and **Test**-**Driven** **Development** **(TDD).**
* Used ORM to avoid the duplication of data and reduce the cost of maintenance.
* Configured **JMS Modules, SAF Agents, SAF Modules.**
* Using Configuration Management Process using **Ansible**.
* Setting up continuous integration and formal builds using Jenkins with GIT repository.
* Also used **Bootstrap** and **Angular.js** as a mechanism to manage and organize the **HTML** page layout.
* Wrote **python** **scripts** to parse **XML** documents and load the data in database.
* Built **front**-**end** **SPA** using **CSHTML, AngularJS and** bootstrap and back-end using **ASP.NET MVC** and **Web** **API**.
* Helped implement the **DAL** layer of **Web API** using **Entity** **Framework** **5**.
* Experienced in designing and deployment of **Hadoop** cluster and various Big Data Analytic tools including **PIG**, **HIVE, Spark, Kafka, Oozie, Sqoop, Impala** with Horton works distribution.
* Performed source data transformations using **HIVE**.

**ENVIRONMENT:**

Java, Python, JavaScript, HTML/CSS, MySQL, PL/SQL, JDBC, Jenkins, Unix Shell Scripting, Angular JS, TCP/IP, UDP, SNMP, GIT, Red Hat Linux, AWS, Ansible.

**HDFC Bank – Hyderabad, India Dec 2012 to August 2013**

**Python Developer**

**Responsibilities:**

* Worked with the Stakeholders, gathered requirements developed high level design documents.
* Have used Python libraries like **NumPy/SciPy**, Pandas for market analysis and done some machine learning using Python.
* Profiled python code for optimization and memory management.
* Implemented front end for third party Web service using **jQuery, Html, AJAX, JSON** and **JavaScript**.
* Developed a **MATLAB** algorithm which determines an object's dimensions from digital images.
* Web-services backend development using **Python (CherryPy, Django, SQLAlchemy**).
* Designed and developed the UI of the website using **HTML, XHTML, AJAX, CSS** and **JavaScript**.
* Developed entire frontend and backend modules using **Python** on **Django** **Web** **Framework**.
* Worked on development of SQL and stored procedures on **MySQL**.
* Designed and developed a horizontally scalable APIs using Python Flask.
* Associated with development of **Web** **Services** using **SOAP** for sending and getting data from the external interface in the **XML** format.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Used Python based **GUI** components for the frontend functionality such as selection criteria and developed a **GUI** for a **Java** **script** product.
* Developed the required **XML** Schema documents and implemented the **framework** for parsing **XML** documents.

**ENVIRONMENT:**

Python 2.7, NumPy, SciPy, Dockers, Pandas, C++, JSON, Oracle DB, MySQL, DB2, PL/SQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, Apache Web Server, Django 1.4

**Ranbaxy Laboratories Ltd – Hyderabad, India July 2011 to Nov 2012**

**Python Developer**

**Responsibilities:**

* Designed and developed components using Python. Implemented code in Python to retrieve and manipulated data.
* Re-engineered various modules for implementing changes and creating efficient system.
* Managed large datasets using **Panda** **data** **frames** and **MySQL** creating efficient system.
* Designed and Developed UI using **HTML,** and **XHTML, AJAX, Java Script** and **jQuery**.
* Used Java Script libraries like **jQuery** **UI, DataGrid, jscolor, high charts.**
* Developed the presentation layer **HTML, JSP, CSS** and **DHTML**.
* Developed widgets for **GUI** using **PyGtk** modules of **python**.
* Used **Django** to develop web-based application and deploy it using Jenkins.
* Developed Page layouts, Navigation and presented designs and concepts to the clients and the management to review.
* Using **Restful** **APIs** to access data from different suppliers.
* Used **Python** and **Django** for creating graphics, **XML** processing of documents, data exchange and business logic implementation between servers.
* Used python Data structures like **sqlite3, dictionaries** and **tuples**.
* Used several Python libraries like **NumPy, Pandas** and **Matplotlib**.
* Helped with the migration from the old server to **Jira** database with Python scripts for transferring and verifying the information
* Supported **Apache Tomcat Web server** on **Linux Platform**.
* Used **RAD 7.0** for implementing **Static** and **Dynamic web services** for consuming and providing services related to the business.
* Developed and executed User Acceptance Testing portion of test plan.
* Involved in writing application level code to interact with **APIs, Web Serving using AJAX, JSON** and **XML**.

**ENVIRONMENT:**

Java1.6, Struts 1.x, J2EE, HTML, JavaScript, Servlets, JSP, JDBC, Eclipse, XML, XSLT, XSD, EJB, Ant, JUnit, Tomcat, Windows XP, UNIX, Oracle10g, CSS style sheets.