**Sky Reed Email:** **sky.reed12@outlook.com**

**Python Developer**

**Summary:**

* Around 5 years of experience IT Industry with proficiency in Design & Development of Python, Django.
* Experienced with full software development life-cycle, architecting scalable platforms, object oriented programming, database design and agile methodologies
* Expertise in the use of Pandas and R programming for statistical analysis
* Experienced in MVW frameworks like Django, Java Script, JQuery
* Experience in working with Python ORM Libraries including Django ORM, C++, MySQL, UNIX and Linux.
* Experienced in WAMP (Windows, Apache, MYSQL, and Python) and LAMP (Linux, Apache, MySQL, and Python) Architecture
* Experienced in developing web-based applications using Python, Django, C++, XML, HTML, JavaScript and Jquery
* Hands on experience in analyzing large datasets and handling database issues using Oracle Relational database 9g, 10g, 11g and also MySQL database.
* Have good knowledge on No-SQL databases like Cassandra, Mongo DB
* Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.
* Familiar with JSON based REST Web service
* Experienced in working with various Python Integrated Development Environments like Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.
* Designed, configured, and deployed Amazon Web Services for a multitude of applications utilizing the AWS stack (Including EC2, Route53, S3, RDS, Cloud Formation, Cloud Watch, SQS, IAM), focusing on high-availability, fault tolerance, and auto-scaling
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Experienced in agile and waterfall methodologies with high quality deliverables delivered on-time.
* Very strong full life cycle application development experience
* Strong knowledge on Dev Express Controls. Procedures, functions, triggers, Cursors, Indexing, importing/ exporting data from varied data sources
* Experience with Cloud Services like Heroku, Google App Engine, Amazon AWS, EC2, S3 etc.
* Hands on experience deploying projects in production and staging environment.
* Worked on various applications using Python integrated IDEs Eclipse, PyCharm, NetBeans and Geany.
* Experience with continuous integration and automation using Jenkins
* Experience with Unit testing/ Test driven Development (TDD), Load Testing
* Proficient in Unit Test Plans (UTP), Integrated Test Plans (ITP) Extensive experience in User Acceptance Testing (UAT).
* Have the ability to understand complex systems and be in command of the details to provide solutions
* Ability to learn and adapt quickly to the emerging new technologies and paradigms
* Excellent communication, interpersonal and analytical skills and a highly motivated team player with the ability to work independently
* Practical experience with working on multiple environments like development, testing, production.
* Excellent analytical and problem solving skills and ability to work on own besides being a valuable and contributing team player

**Technical Skills:**

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| --- | --- |
| Languages | C#, Python, SQL, JAVA , shell script,Perl |
| Databases | SQL Server 2014,2012, Oracle 9i/8.x, 10g, MYSQL, Mango DB |
| Other Software | MS Office- 2007/2003/2000, Adobe Professional, SharePoint |
| Operating Systems | Linux, Windows /98/2000/2003/XP/Vista/8, Unix |
| Data Science Tools | R Language, STASTISTICA, python |
| Web Technologies | HTML, CSS, AJAX, JavaScript, DHTML, XHTML, XML, JQuery, AngularJS |

**Capital One**

**Mclean, VA July 2016 – Present**

**Python Developer**

**Responsibilities:**

* Participate in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users
* Worked with team of developers on Python applications for RISK management
* Developed Python application for Google Analytics aggregation and reporting
* Worked on Python Open stack API's,used Python scripts to update content in the database and manipulate files
* Implemented machine learning schemes using Python libraries scikit-learn and scipy.
* Experience in MVC architecture using Django for web based application in OOP concepts.
* Worked on several python packages like Matpoltlib, cx\_Freeze, Pillow, Numpy, sockets.
* Worked on ETL Processing which consists of data transformation, data sourcing and also mapping,Conversion and loading.
* Worked on design and development of Unix Shell Scripting as a part of the ETL Process to automate the process of loading.
* Worked on ETL tasks like pulling, pushing data from and too various servers.
* Tested and evaluated results for inclusion into software product.
* Designed and deployed machine learning solutions in Python to classify millions of previously unclassified Twitter users into core data product
* Used Pandas API to put the data as time series and tabular form for east timestamp data manipulation and retrieval to handle time series data and do data manipulation
* Used Pandas library for statistical Analysis using R Studio
* Automating Email Process, Downloading and uploading the files through Perl Scripting.
* Worked on front end frame works like CSS, Bootstrap for development of Web application.
* Developed views and templates with Python and Django’s view controller and templating language to create a user-friendly interface using MVC architecture.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Integrate the dynamic pages with Angular JS and j-query to make the pages dynamic
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met
* Used **Machine learning** techniques like unsupervised Classification, optimization and prediction.
* Worked on Python open stack API's
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript, also used Bootstrap as a mechanism to manage and organize the html page layout
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL db package
* Associated with working cloud computing platforms like open stack.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Worked on development of SQL and stored procedures on MYSQL
* Engaged in Design, Development, Deployment, Testing and Implementation.
* Responsible for debugging the project monitored on JIRA (Agile)
* 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,.NET, PyQuery, MVW, HTML5, Shell Scripting, JSON, Apache Web Server, SQL, UNIX, Windows, and Python libraries.

**Cigna Bloomfiled CT, Oct 2014 – June 2016**

**Python Developer**

**Responsibilities:**

* Designed views and templates with Python Django’s view controller and templating language to create a web interface
* Designed presentation part in JSP(Dynamic content) and HTML(for static pages).
* Design and develop ETL APIs which will automate the data mining in different database sources.
* Deployed project into Amazon web services (AWS) using amazon elastic bean stalk.
* Use TCP/IP protocol to connect with server which has database available to connect for the ETL tool.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Able to create scripts for system administration and AWS using languages such as BASH and Python.
* Used JavaScript and JSON to update a portion of a webpage.
* Handled potential points of failure through error handling and communication of failure ,Anticipated potential parts of failure (database, communication points, file system errors)
* Troubleshoot the process execution and worked with other team members to correct them.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Used on Django’s API’s to access database objects Used AWStats and Google Analytics to analyze web traffic.
* Prepared test data files using Linux Shell scripts, Perl script as per the business requirements.
* Responsible for design of the backend request processing system and interface between CPO and Perl scripts from scratch.
* Participated in the development of application architecture and blueprints to define application components,platforms, interfaces and development tools.
* Created Python scripts to automate AWS services which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups, S3 bucket and application configuration.
* Started developing with Django and currently developing with Django 1.0.
* Created entire application using Python, Perl,PostgreSQL and Linux.
* Used Wire shark, live http headers, and Fiddler2 debugging proxy to debug the Flash object and help the developer create a functional component.
* Build high-performance streaming REST server in Flask.
* Developed user interface using HTML, CSS, AJAX and JavaScript
* Worked on API’s deploying queries, status codes, requests to retrieve data in json format
* Worked on data exchange from website using xml, java and web services
* Worked on python scripts to parse XML documents and load the data in database
* Coordinated with team members to improve quality assurance and mitigate risks
* Wrote stored procedures in MySQL

**Environment:** Python 2.7,.NET, PyQuery, MVW, HTML5, Shell Scripting, JSON, Apache Web Server, SQL, UNIX, Windows, and python libraries such as Numpy, SQLAlchemy, etc.