**PROFESSIONAL SUMMARY:**

* 8+ years of software/IT experience in Analysis, Design, Development, Implementation, Testing, Maintenance and Documentation of web based and standalone applications in Energy, Banking, Finance, Health, Retail and Communication domains.
* Expertise in developing **MVC** based applications using **Django**, **Flask, and Express** Frameworks.
* Developed and implemented APIs using Django Restful framework to perform CRUD operations on AWS RDS.
* Experienced in designing rich Graphic User Interface using frontend layouts on the web using **HTML5, XML, CSS, and JavaScript**.
* Experience with **HTTPLib2, Urllib2, Beautiful Soup, numpy, scrapy, petl, json, Pickle, Pandas, Scipy, pyspark** and **Matplotlib** python libraries.
* Worked with **Python** to create scalable and robust common components which can be used across the application development.
* Developed ETL tool using python and Pyspark.
* Experienced using Python ETL packages like **petl** to extract the data from client, transfer and load into RDS
* Worked on **python** scripts to parse **JSON/XML** documents and load the data in database.
* Performed Design, involved in code reviews and wrote **unit tests** in **Python**.
* Extensively used **Python / Django** Framework for developing backend of web applications
* Knowledge of **ORM** mapping using **SQLACHEMY**.
* Experience with data migration from **MySQL** to **PostgreSQL.**
* Good Experience in **Linux Bash scripting** and following **PEP** Guidelines in **Python.**
* Performed mapping of **JSON/XML** formatted data with relational databases like **MySQL, PostgreSQL, and SQLite.**
* Documented company **Restful** API’s using **Swagger** for internal and third part use.
* Experienced in monitoring, developing and transforming data using **SQL** **Server Integration Service (SSIS)** and **SQL Server Analysis Service (SSAS)**.
* Profound knowledge in Test plans, Test Cases, Test Scripts and experience in Functional Services Testing, GUI Testing, Back-end Testing using **SQL**, DB2, Browser Compatibility Testing, Web Services Testing, System Testing.
* Good Knowledge of web services using **SOAP** and **REST** protocols.
* Experience working in **Test-driven development (TDD) and Agile/Scrum Methodologies.**
* Experience working with pyspark to fetch and analyse the data
* Developed automated processes that run daily to check disk usage and perform clean-up of file systems on **UNIX** environments using **shell scripting** and **CRON**.
* Proficiency in **Object Oriented Programming (OOP)** concepts.
* Hands on experience in using version control systems like **Git, GitHub, Gulab and SVN.**
* Experienced in designing and developing performance focused scalable complex data pipelines.
* Experience web-based project management and issue tracking tools like **Redmine**
* Proficient in using internal tools in **Pycharm, Brackets, PyDev, Netbeans** and **Eclipse** for debugging and worked with **Sublime Text 2, Vim Editors** for coding.
* Excellent skills in resolving hardware and software issues, malware removal, data recovery, disk management and installations of operating systems.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle, DB2, MySQL, and **MSSQL Server**.
* Expertise in Object-Oriented design and coding and good knowledge of various Design Patterns and UML.
* Experienced in developing and executing manual and automated tests in different platforms using **Python**, Pytest/Unittest/Robot and the Selenium library.
* Good understanding of SQL concepts and hands on experience with databases like **SQL, Oracle.**
* Had a good experience about tools like Bugzilla, Jira, and Confluence.
* Good Experience in Linux Bash scripting and following PEP Guidelines in **Python**.
* Good knowledge in Object-Oriented Analysis, Design, and development of applications using Core Java, Servlets, JSP, **JDBC, RMI, Multithreading, Eclipse**, and **Tomcat**.
* Good analytical and problem-solving skills and ability to work on own besides being a valuable and contributing team player.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment

**TECHNICAL SKILLS:**

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| --- | --- |
| Frameworks | Django, Flask, Jython |
| Web Technologies | HTML, CSS, Java Script, JQuery, XML, JSON |
| Programming Languages | Python, Java, C/C++, SQL and PL/SQL. |
| Versioning Tools | SVN, GitHub, GitLab, Bitbucket |
| Software Lifecycle Methodologies | Waterfall, Iterative, Agile and Scrum |
| Databases | PostgreSQL, MySQL, Oracle, MongoDB, DynamoDB |
| IDE’s/ Development Tools | PyCharm, Eclipse, Visual Studio, PyScripter, PyStudio, and Sublime Text. |
| Operating Systems | Windows, Linux, MAC OSX. |
| Protocols | TCP/IP, HTTP/HTTPS, SOAP, SMTP |
| Deployment Tools | Heroku, Jenkins, Amazon EC2 |
| Testing Tools | Postman, Selenium |

**PROFESSIONAL EXPERIENCE:**

**Client:** United Airlines, Chicago, IL Apr 2021 – Present

**Role:** Sr. Python Developer

**Roles & Responsibilities:**

* Designed, developed and Implemented **micro services** using **Flask framework** and integrated it with 3rd party **APIs** in the application
* Python programming and processing JSON, XML and CSV files
* Developing dynamic web pages, monitoring and notification tools, Front end applications using Python, Django Frameworks.
* Used data structures like directories, tuples, and object-oriented class based inheritance features for making complex algorithms of networks.
* Build database Model, APIs and Views utilizing python, to build an interactive web based solution.
* Develop and test features for dashboard using **Python, Bootstrap, CSS, JavaScript** and query.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using **Python-**MySQL connector and MySQL dB package to retrieve information.
* Designing email marketing campaigns and create responsive web forms that saved data into a database using Python/ Django Framework.
* Approach development with an agile mindset, strong advocate of scrum implementation.
* Unit testing of the fixes and enhancements.
* Implemented client-side changes for Rejected product reviews and logging events using **Visual Studios.**
* End to end software development in a combination of the following: architecture and design, user interface, database systems, analysis, cognitive systems.
* Implemented API validations to increase the security and performance of the application.
* Exposed **REST APIs** using Flask framework and **swagger** for API documentation.
* Involved in optimizing **budget UI** pages by optimizing the components (**AngularJS**) code and code reviews.
* Optimized the budget email notification system by optimizing business logic in **python**.
* Created **MongoDB** pipelines to increase the performance of the budgetapplication.
* Implemented business logic using **python** and performed testing using **pyunit** and **unittest** modules.
* Leverage the devops team to ensure product can be automatically built, deploy, and test using a **ci/cd** pipelines across all of the release cycles from dev to production.
* Made design recommendations towards the development of new code and reuse of existing code
* Good understanding of overall web design including basic functionality, accessibility, industry standards, architecture, and navigation.
* Strong knowledge of modern web technologies, best practices, and load speed optimization techniques.
* Responsible for development and management of automated tests and ci/cd scripts and provide high coverage of all the key positive and negative uses that customer need to ensure no regression occurs from release to release.
* Good at communicating and explaining business requirements and business logic to peers

**Environment:** Python 3.6.2,REST, Flask, HTML5, CSS, Bootstrap, JavaScript, Angular7, UNIX, MVC architecture, AWS EC2, GitHub, JSON, MongoDB, Restful API, Docker, Kubernetes.

**Client:** Bank of America, Irving, TX Oct 2019 – Mar 2021

**Role:** Sr. Application Developer

**Roles & Responsibilities:**

* Responsible for integrating existing applications with GraphQL layer to improve the performance of the application.
* Exposed **REST APIs** using Express JS and nodejs.
* Responsible for analysing various cross-functional, multi-platform applications systems enforcing **Python** best practices and provide guidance in making long term architectural design decisions.
* Utilized **HTTPLib2, Urllib2, Beautiful Soup libraries** for data scraping **and Numpy, petl, Json, Pickle, Pandas, Scipy** and **Matplotlib** for data storage and plotting.
* Implemented business logic using **python** and performed testing using **pyunit** and **unittest** modules.
* Extracted the data from **CSV, Excel, Json** files and transferred it into the MySQL database using python **Pandas, pyetl, numpy, pymysqldb** libraries**.**
* Implemented user Authentication using **CAS/OAUTH2** and integrated into **Django.**
* Implemented and enhanced **CRUD** operations for the applications using the **MVC** architecture of **Django** Restful framework and conducted code reviews.
* Coded model level validation using **Python** programming with emphasis in **web security**.
* Developed views and templates in **Django** to create a user-friendly website interface.
* Experience in code transition from python2.7.11 to python3.6.
* Utilized Django ORM to perform CRUD operations on MYSQL db
* Developed web services using **Restful** technology to support **JSON** and **XML**.
* Performed **CRUD** operations on **MySQL**/**PosgreSQL** database in AWS.
* Deployed the project into **Docker** and **GitHub** as version control system.
* Experienced using **JIRA** for bug tracking and tickets.
* Worked on cloud computing infrastructure (Amazon web services **EC2**) and considerations for scalable, distributed systems.
* Worked with IAM to manage the users and groups using IAM by assigning individual policies and roles to each users and group as per requirements.
* Configured Jenkins with GITLAB/SVN for build automation and build deployment on Local, Staging and production servers using **Docker**
* Configured environment variables in **Docker** compose file and managed docker containers.
* Experience using Version control, continuous integration and deployment tools like **GITLAB, Jenkins, Docker**.
* Experienced in manging and using **JIRA** for bug tracking and tickets and excellent understanding **Agile and Scrum** development methodology.

**Environment:** Python 3.6.2, ExpressJS, NodeJS, GraphQL, Django 1.11, HTML5, CSS, Bootstrap, JavaScript, JQuery, AngularJS UNIX, MVC architecture, AWS EC2, GitHub, JSON, MYSQL, PostgreSQL, Restful API, Docker.

**Client:** CVS Health, Dallas, TX  Jan 2017 – Sept 2019

**Role:** Sr. Application Developer

**Roles & Responsibilities:**

* Handled Business logics by backend Python programming to achieve optimal results.
* Used interactive data binding, filters and animation events using **AngularJS.**
* Worked with **HTTPLib2, Urllib2, Beautiful Soup, numpy, scrapy, petl, json, Pickle, Pandas, Scipy, pyspark** and **Matplotlib** python libraries.
* Implemented **jQuery** to improve the overall usability of the website interface and **AJAX** functionality to speed up web application.
* Coded model level validation using **Python** programming with emphasis in **web security**.
* Worked with **Python** ETL packages like petl to extract the data from client, transfer and load into **MongoDB**.
* Developed views and templates in **Django** to create a user-friendly website interface.
* Configured **Django** to manage URLs and application parameters.
* Extensively used **Python / Django** Framework for developing backend of web applications.
* Used **Django** ORM for database access.
* Developed web services using **Restful** technology to support **JSON** and **XML**.
* Performed CRUD operations on **MongoDB**.
* Worked with pyspark to fetch and analyse the data.
* Developed **UI pages** using **HTML, Java script**. Angular.
* Implemented **AJAX** to update necessary section of webpages and hence, avoiding the need for reloading the entire web page.
* Developed and tested many features in an **Agile** environment using **Python, Django**, **HTML5**, **CSS, JavaScript**, **Bootstrap** and **Rspec**.
* Creating and configuring virtual development environments with **Chef** and Virtual Box.
* Deployed the project into **Heroku** and used **GitHub** version control system.
* Managed code with **unit tests** and **GitHub**.
* Used **GIT** as Source control repositories with regular code reviews and pull/merge requests.
* Involved in writing **Rake** tasks for updating database.
* Utilized Redmine for web-based project management and issue tracking tools Implemented **LDAP** authentication using devise to integrate with an in-place **web seal/TAM** infrastructure.
* Implemented and enhanced **CRUD** operations for the applications using the **MVC** architecture of **Django** framework and conducted code reviews.

**Environment:** Python 3.4, Django 1.7, HTML5, CSS, Bootstrap, JavaScript, angular, UNIX, MVC architecture, AWS EC2, GitHub, Chef, JSON, XML, MongoDB, Heroku, Restful API.

**Client:** B2B Software Solutions, Hyderabad, IndiaApr 2015 –Aug 2015

**Role:** Python Developer

**Roles & Responsibilities:**

* Worked on server-side applications with **Django** using **Python** programming
* Developed and tested many features for dashboard, created using **Bootstrap, CSS and JavaScript.**
* Developed data validation & Data access components using **Servlets**.
* Used python libraries like **Beautiful Soup** and **matplotlib**.
* Used **Pandas** for a data alignment and data manipulation.
* Utilized standard Python modules such as **csv, robotparser, itertools and pickle** for development.
* Worked on **Python** OpenStack APIs and used **Numpy** for Numerical analysis.
* Used **Ajax** and **JQuery** for transmitting **JSON** data objects between frontend and controllers.
* Developed **Wrapper** in Python for instantiating multi-threaded application.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Managed datasets using **Pandas** data frames and **MySQL**.
* Developed **Restful** API’s using Python **Flask** and SQLAlchemy data models as well as ensured code quality by writing unit tests using Pytest
* Developed various algorithms for generating several data patterns.
* Developed test cases and performed unit test using **JUnit** Framework.
* Used **JIRA** for bug tracking and issue tracking.
* Added several options to the application to choose particular algorithm for data and address generation.
* Used **Agile** Methodology and **SCRUM** Process.
* Maintained the versions using **GIT** and sending the release notes for each release.

**Environment**: Python 2.7, Django 1.4, CSS, HTML, Bootstrap, JavaScript, AJAX, jQuery, Pandas, MYSQL, Restful API’s, Linux, SCRUM, Agile, Heroku, JIRA, GIT.

**Client:** Tesla Diagnostics, Hyderabad, India Oct 2013 - Mar 2014

**Role**: Python Developer

**Roles & Responsibilities:**

* Assisted in the reduction of cost and optimization of supplier selection for the CRM Applications.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries.
* Implemented **Servlets** to handle HTTP requests for on-line requests, credit card payments, registration, and bug tracking.
* Used **Bootstrap** for responsive design.
* Worked on development of **SQL** and Stored Procedures on MYSQL
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page
* Extensively worked on Python scripting and development. CSS is used to style Web pages, XHTML markup.
* Build SQL queries for performing various **CRUD** operations.
* Worked on **Apache** database
* Improved code reuse and performance by making effective use of various design patterns.
* Used HTML, CSS, JQuery, JSON, and JavaScript for front end applications.
* Optimized the database queries to improve the performance.
* Developed in Windows and going to deploy it in the **UNIX** server.
* Implemented **Python** components and deployed under the Web Logic server.

**Environment:** Python 2.7, JSON, JavaScript, JQuery, Bootstrap, MySQL, UNIX, Eclipse, Shell Scripting, HTML5, CSS, Apache, Cassandra

**EDUCATIONAL DETAILS:**

* Bachelors of Engineering in Computers Science from Anna University passed out in the year 2014
* Masters in Computers Science from Texas A&M University passed out in the year 2016.