**Manoj**

manoj.m2275@gmail.com

 732-355-7355 Ext - 389

**PROFESSIONAL SUMMARY:**

* Over 7+ years of experience in the field of software development as an Analysis, Design, Development, Management, and Implementation of various stand-alone, client-server enterprise applications using Python.
* Experience in IT industry with proficiency in Analysis, Design & Development Testing of Enterprise
* Applications and Database Development using, Python, Django, Flask and SQL projects.
* Experienced in complete Software Development Life Cycle, and major aspects of technological projects including Requirement Analysis, Design, Development, Database Design, Deployment, Testing, Debugging, and Application Maintenance.
* Experience of dealing with various development methodologies like Scrum.
* Experienced with WAMP (Windows, Apache, MySQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Expertise in full life cycle application development and good experience in Unit testing and Test-Driven Development (TDD) and Behavior driven Development.
* Strong experience in DevOps Environment by enhancing Continuous Delivery and infrastructure change by using Chef, Ansible, Kubernetes and Docker to deploy code with GIT, Jenkins.
* Hands on experience with continuous integration and automation using Jenkins.
* Experience of using Python modules like NumPy.
* Skilled in Object-Oriented Design and Programming using Python.
* Experienced in using Python, Django, PHP, HTML, JavaScript, XML and JSON for developing web applications.
* Experienced in implementing Model View Control (MVC) architecture using server-side applications like Django and Flask for developing web applications.
* Experienced with JSON based REST full web services, and XML based SOAP web services.
* Worked on various applications using python integrated IDEs like Eclipse, IntelliJ and PyCharm.
* Experience of working with relational databases like Oracle, MySQL.
* Proficient in developing complex SQL Queries, Stored Procedures, Triggers, Cursors, Functions, and Packages.
* Written and developed scripts for automating tasks using UNIX shell scripting.
* Experience in project deployment Amazon Web Services (AWS), and Amazon Simple Srtorage Services (S3).
* Worked on various Operating Systems like UNIX, Linux, and Windows.
* Experienced with version control systems like Git, GitHub, CVS, and SVN to keep the versions and configurations of the code organized.
* Experience in handling errors/exceptions and debugging issues in large scale applications.
* Highly motivated, dedicated, quick learner and have proven ability to work individually and as a team.
* Excellent written and oral communication skills with results-oriented attitude.
* Well versed in design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.

**TECHNICAL SKILLS:**

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| Languages | Python 3.5/2.7, Python with Django, Java, C, SQL, Shell Scripting, Spark |
| Frameworks | Django, Flask. |
| Python Libraries | Pandas, Flask, Django, Docker, NumPy, Matplotlib, NLTK, Stats models, Scikit-learn, SciPy, Tkinter |
| Mark-up/XML Technologies | HTML5, CSS3, JavaScript, jQuery, AJAX, AngularJS, Bootstrap, XML, XSD, XSL/XSLT, SAX/DOM, JSON. |
| Web services |  SOAP, RESTful, UDDI, WSDL, JAX-RS, JAX-WS. |
| Database |  Oracle, SQL Server, MongoDB, SQL Lite |
| IDEs |  Eclipse, Spring Tool Suite, IntelliJ. |
| Methodologies |  Agile, Scrum, Kanban. |
| Version Control |  SVN, CVS, Git |
| OS & Environment |  Windows, UNIX, Linux |

**PROFESSIONAL EXPERIENCE:**

**Actalent, Ottawa, Canada October ‘21 – Till Date**

**Client: Epiphan Systems Inc**

**Python Developer**

**Responsibilities:**

* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Developed entire frontend and backend modules using Python on Django Web Framework
* Developed API services in Python/Tornado and Nodes while leveraging AMQP and RabbitMQ for distributed architectures.
* Worked with RLC and NAS protocols for a networking client for adaptive network development.
* Wrote and reviewed code for low-latency LTE and 4G requirements. Tested various API end-points
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package.
* Used BDD framework (Cucumber) for the development of microservices.
* Develop Django apt on AWS Services including EC2, S3, ELB, EBS, IAM, AMI, Lambda functions, Security Groups and Boto3.
* Deployed and set up AWS Apache Web Server. Good understanding of multi-process architecture
* Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in
* Implemented Kafka for collecting real time transaction Data, which was then processed with spark streaming with Python to recommend actionable insights.
* Used Django framework to develop the application and used Python modules for web crawling.
* Utilized PyUnit, the Python Unit test framework, for all Python applications and used Django Database API's to access database objects.
* Technologies utilized: ReactJS, Sass/Scss, Ant Design, NodeJS, ExpressJS, MongoDB, Puppeteer, D3Js
* Worked on several standard Python packages like Numpy, MatPlotLib, Scipy, Pandas and PyTables etc.
* Created core Python API which will be using among multiple modules
* Used Python to write data into JSON files for testing Django Websites. Created scripts for data modeling and data import and export.
* Dockerized monolithic application and re-implemented features as microservices.
* Developed applications and methods with Python scripting for ETL, with MS SQL and Oracle.
* Performed data modeling ETL using Snowflake
* Work with traders, quants, tech teams and middle office to design and deliver excellent solutions to the Emerging Market Fixed Income business
* Used AWS Glue and Redshift Spectrum for ETL and querying semi-structured data from S3 respectively.
* Involved in building database Model, APIs and Views utilizing Python, in-order to build an interactive web-based solution.
* Performed data extraction and manipulation over large relational datasets using SQL, Python, and other analytical tools.
* Worked on Python to place data into JSON files for testing Django Websites using Eclipse.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Implemented Zuul as Edge Server for handling the requests and to perform the dynamic routing to the microservices and to implement security.
* Working on migrating the current monolithic app into Microservices.
* Involved in building stable React components and stand-alone functions to be added to any future pages.
* Wrote python script to compare performance between support vector machine and deep neural network using Scikit-learn and NumPy.

**Environment:** Python, Django, PyCharm, PyTorch, Pandas, Flask, Python API, Tensor Flow, scikit-learn, NumPy, Micro services, ORM, Celery, Kafka, SQL Alchemy, JavaScript, HTML5, CSS3, Angular, Snowflake, Machine learning, data science, Tornado

**AMD (Advanced Micro Devices), Toronto, Canada October ‘20 – October ‘21**

**Python Developer**

**Responsibilities:**

* Experienced in ORM programming in converting data between incompatible type systems in OOP languages.
* Wrote and executed various MYSQL database queries from Python using Python-My SQL connector and My SQL db package.
* Worked with tools like Jenkins to implement build automation.
* Development of company´s internal CI system, providing a comprehensive API for CI/CD.
* Associated with various phases of Software Development Life Cycle (SDLC) of the application like requirement gathering, Design, Analysis and Code development.
* Worked with team of developers on Python applications for RISK management.
* Generated Python Django Forms to record data of online users.
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.
* Contribute to major development initiatives with codebases utilizing Python, Django, R, My SQL, Mongo DB, j Query and React.
* Performed Compatibility testing of applications for dynamic and static content of browsers using HTML Ids and X Path in Selenium.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Worked on cross browser compilation and Responsive Web Design using HTML5, CSS3 and Bootstrap.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS, and JavaScript.
* Created web application prototype using jQuery and Angular JS.
* Worked on dynamic web applications by using Angular JS.
* Developed flask Restful API endpoints for accessing through UI and uploading ETL data.
* Developed entire frontend and backend modules using Python on Django Web Framework with GIT.
* Used IDE tool to develop the application and JIRA for bug and issue tracking and Used JIRA to assign, track, report and audit the issues.
* Developed and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript, and J Query.
* Performed Unit testing, Integration Testing, GUI and web application testing using Rspec.
* Created the environment specific settings for a new deployment and update the deployment specific conditional checks in code base to use specific checks.
* Used advanced packages like Mock, patch and beautiful soup (b4) to perform unit testing.
* Resolved ongoing problems and accurately documented progress of a project.
* Created the environment specific settings for a new deployment and updated the deployment specific conditional checks in code base to use specific checks.
* Implemented the Backbone JS for DOM manipulation as this is the light web framework compared to Angular JS.

**Environment:** Python, Django, Mongo DB, Selenium, Pandas, Java, J Query, Zookeeper, bootstrap, My SQL, Linux, Ajax, Java Script, Apache, JIRA, Cassandra, HTML5 and CSS, Angular JS, Backbone JS.

**Dell Technologies, Bangalore, India July ‘17 – February ‘20**

**Python Developer**

**Responsibilities:**

* Worked Agile Methodology (Scrum) to meet customer expectation, timelines with quality deliverables.
* Analyzed the business requirements and created use cases and prepared low and high-level design documents.
* Created database Model, APIs and Views utilizing Python to build an interactive web-based application.
* Developed a portal to manage and entities in a content management system using Flask.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS, and JavaScript
* Involved in development using Python, bug fixing and unit testing of the layout commands.
* Developed server-based web traffic statistical analysis tool using Flask, Pandas and had implemented and tested python-based web applications interacting with MySQL.
* Used collections in Python for manipulating and looping through different your defined objects.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Experience in installing software's using pip command for python libraries like Beautiful Soup, NumPy, SciPy, python-twitter, Rabbit MQ, Celery, matplotlib, Pandas data-frame and used PEP8 coding convention.
* Created Indexed Views, complex Stored Procedures, effective functions, and appropriate Triggers to facilitate efficient data manipulation and data consistency.
* Experience with bug-tracking Jira, source code management tools Git, GitHub, Stash, and team collaboration software SAAS tool Confluence.
* Involved in unit testing, integration testing and performance testing.
* Experience configuring and developing with different Database servers including MySQL, MSSQL, Oracle and Mongo Db.

**Environment**: Python 3.6/2.7, Django 2.0/1.6, HTML5, CSS, XML, Pandas, JavaScript, Angular JS, Backbone JS, jQuery, CSS Bootstrap, Mongo DB, MS SQL Server.

**Infosys Limited, Hyderabad, India December ‘15 – July’17**

**Jr Python Developer**

**Responsibilities:**

* Performed root cause analysis for reoccurring or high impacting incidents.
* Utilized Microservice architecture with Django app‐based services that interacted through REST APIs
* Used Django‐celery with the help of Rabbit MQ message broker for large processing.
* Integrated Redis‐Cache with Flask Rest Framework to read the data faster.
* Developed the user interface using React JS and Flux for Single Page Application development.
* Developed custom React Hooks with built in JavaScript Hooks for building reusable components.
* Worked on React Virtual DOM and React Views rendering using components containing custom HTML.
* Setup Jenkins Master and multiple Slaves as part of the CI/CD process.
* Worked with Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Developed automation solutions leveraging Shell Scripts to increase the operational efficiency
* Migrated the existing legacy application onto the AWS Cloud.
* Deployed AWS Lambda code using Amazon s3 buckets. Created Lambda deployment functions.
* Worked with complex SQL queries to retrieve the data and wrote the Hive Quires to fetch data on Qubole.
* Worked on miss value imputation identification with statistical methodologies using Pandas and Numpy.
* Created Splunk alerts and ticketed the Jira issues to notify the customer support team.
* Migrated the database from SQLite to MySQL and rewrote the models.

**Environment:** Python, Django Web Framework, HTML, CSS, No SQL, JavaScript, J Query, Sublime Text, Jira, GIT, py Builder, unit test, Firebug, Web Services.