**Navya M**

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**PROFESSIONAL SUMMARY:**

* Professional **Python Developer** with **6**+ years of experience with **deep understanding** of technology trends with expertise in **core** of **complex technologies. Solid experience in Analysis, Design** and **Development, Testing,** Implementation**,** production support and maintenance of various **Web Applications** using **Python, Spark, Django, Bottle framework**.
* Expertise in creating **Scrum stories, Agile Methodologies, Sprints** experiencein **Python** basedenvironment**,** alongwith **Data Analytics, Excel Data Extracts** and **Data Wrangling.**
* Proficient in using various **Python libraries** to speed up development **(libraries used: Beautiful Soup, SciPy, Matplotlib, Python - Twitter, Pandas Data Frame, Network, Urllib2, MySQL DB** for **database connectivity** and **JSON libraries).**
* Experience with **Design, code,** and **debug operations, reporting, data analysis** and **web** applicationsutilizing **Python.**
* Experienced in implementing **LAMP (Linux, Apache, MySQL, and Python)** and**WAMP Architectures.**
* Experience with Web Development **Django Python** framework and **MVW frameworks** like **Java Script**, **JQuery** and **Node.js.**
* Expertise on **UNIX**, **Python** and **Perl** scripting capabilities.
* Experienced in working with various **Python IDEs** using **Spyder, NetBeans, PyStudio, PyScripter, Eric, Wing IDE and PyDev, Sublime Text, PyCharm, Eclipse and NetBeans.**
* Thorough understanding of **Python 3.x/2.x** basic concepts like Lists, Strings, Indexing, Slicing, Tuples and Dictionaries.
* Experienced in installing, configuring, modifying, testing and deploying applications with Apache.
* Experienced in implementing **Object Oriented Python**, **Hash Tables** (**Dictionaries**) and Multithreading, Django, MYSQL, Exception Handling and **Collections** using **Python**.
* Experience in developing the applications using **Python 3.6/3.7**, Flask web framework backed up by **MS SQL/Postgre SQL databases using SQL Alchemy** for **Object Relational Mappe**r (**ORM**).
* Experience in Python Development and Scientific Programming, and using **NumPy and Pandas** in Python for **Data Manipulation.**
* Highly proficient and experience in working on software development and data modelling projects using JavaScript, Python, MSSQL, Logstash, Grafana, Power BI, SAS, HL7, Mirth Connect and PowerShell on windows and Unix/Linux machines.
* Expertise in working with GUI frameworks-Pyjamas, Jytho, guidata, PyGUI, PyQt PyWebkitGtk and Experienced with **Elasticsearch, Log stash and Kibana (ELK).**
* Experience d in Splunk development (creating Dashboards, reports, alerts, data models, etc.)
* Hands - on experience on tools like **BIDS, Tableau, SolarWinds, and Splunk.**
* Expertise in developing Restful micro services using python **aiohttp** and **Fast API Frameworks**.
* Experience object oriented programming (OOP) concepts using Python, .net, C++ and PHP.
* Good knowledge of automated testing concepts using **Pytest.**
* Worked in frond end performance engineering using tools like **webpagetest, gtmetrix, catchpoint, rigor and mpulse and used best practices to enhance performance of websites.**
* Experience with **Django,** andFlask a high**-**level **Python Web framework.** Working with **Backend Python Automation, CI/CD pipelines, Kubernetes, DevOps, Docker, and cloud provisioning/automation.**
* Experienced in developing web-based applications using **Python**, **Django**, **C++**, **XML**, **CSS**, **HTML**, **JavaScript**, **AngularJS** and **JQuery**.
* Responsible for writing Python code to simplify lists in Python with list comprehension and **Python OOP**. Worked with **POSTMAN** for **API** **testing**. Developed **REST** **APIs** and created User Model for application.
* Implemented Monaco to create dashboards in **Dynatrace**.
* Experience with Data Science and Machine Learning algorithms like Linear Regression, Logistic Regression, knn, SVM, Neural Networks, CNNs, LSTMs, RNNs, xgboost and Machine Learning Libraries like Tensorflow, PyTorch, Theano.
* Hands on experience in design and development of **Unix** **Shell** **Scripting** as a part of the **ETL** Process to automate the process of loading.
* Experience in **Designing** the **Automation framework** using **Shell scripting. Familiar with Agile** and **Waterfall Development Methodologies.**
* Experienced in developing web applications using **Ruby on Rails, Java, HTML, CSS, JavaScript, My SQL, Postgre SQL, and SQL Lite on Windows, Linux or UNIX based operating system**.
* Managed Amazon Web Services like EC2, S3 bucket, Auto-Scaling, SNS, SQS, Dynamo DB, **AWS** **Elastic** search, **Lambda** Functions through **AWS** Console and API Integration.
* Hands-on Experience in APM tools like Dynatrace, **AppDynamics**, and monitoring tools like **DataDog**.
* Experienced in working on Application Servers like **WebSphere**, **WebLogic**, **Tomcat, Web Servers** like **Apache server, NGINX** and Integrated Development Environments like **PyCharm, Eclipse, My Eclipse, JDeveloper and RAD**.
* Excellent experience of Databases such as **MySQL, Oracle 13c/9i, Microsoft SQL Server, PostgreSQL, SQL/PLSQL Concepts.**
* Experienced in using **Git**and **Git-Hub**to maintain current and previous versions of project files.
* Hands-on experience in writing and reviewing requirements, documents, test plans, design documents, quality analysis and audits.
* Excellent written and oral communication skills with results-oriented attitude.

**TECHNICAL SKILLS:**

| **Languages** | Python, C++, Java, Shell Script, Perl, SQL |
| --- | --- |
| **Python Framework** | Django, pyramid, Flask, Spring, Hibernate and web2Py, Pandas |
| **Python Libraries** | Requests, Scrapy, wxPython, Pillow, SQL Alchemy, BeatifulSoup, Twisted, NumPy, SciPy, Matplotlib, Pygame, Pyglet, PyQt, PyGtk, Scapy, pywin32, ntlk, nose, SymPy, I python, Python 3.x/2.7/2.4 |
| **Web Technologies** | HTML5, CSS3, JavaScript, XML, Servlet, JSP, JSON, AJAX, SAAS and JQuery |
| **Versioning Tools** | Subversion, GIT, Perforce, SVN, ORM |
| **Web servers** | Apache, IIS |
| **Databases** | MYSQL, PostgreSQL, MS SQL, MongoDB, SQLite, Oracle |
| **Operating systems** | Linux/Unix, Windows Variants, Mac |

**PROFESSIONAL EXPERIENCE:**

**Client:** **JPMC, OH April 2024 – PRESENT**

**Role: Python Developer**

**Responsibilities:**

* Develop new and update existing Python scripts for financial and risk reports, such as Max Loss, CRM, and style guide compliant reports.
* Implement automated data extraction, transformation, and report generation processes for timely and accurate reporting.
* Apply user feedback and change requests promptly, integrating enhancements as per stakeholder specifications.
* Ensure all header changes, data mappings, and file path updates are maintained dynamically and consistently across environments.
* Coordinate and perform code migrations between development, staging, UAT, and production environments to ensure seamless transitions.
* Update and standardize file paths in scripts to reflect environmental and directory changes for consistent report output.
* Liaise with multiple teams to manage cross-platform integration, ensuring that enhancements are available across all related systems.
* Move and synchronize new scripts or code modules between different directories or servers as part of deployment or maintenance.
* Execute test cases to validate data, report accuracy, and business logic before pushing changes to production
* Debug automation scripts and address issues in report generation, such as missing outputs or data inconsistencies
* Monitor outputs and investigate discrepancies between different environments (e.g., UAT vs. production), implementing fixes as needed
* Document all issues and resolutions, and communicate with stakeholders for sign-off or further clarification when required
* Maintain meticulous records of all code changes, migrations, and enhancements for auditing and knowledge transfer.
* Update documentation to reflect changes in file paths, business rules, and report structures.
* Track and document test outcomes, validation steps, and deployment activities for transparency and reproducibility.
* Coordinate change requests, deployment approvals, and communication between developers, testers, and business users.
* Develop and enhance UI features such as date range selection, additional status columns, audit history tracking, and duplicate file handling in reporting modules.
* Refactor and integrate scripts to manage new reporting fields, workflow changes, and ensure smooth data movement between S3, APIs, and local systems.
* Design and implement changes in UI, ensuring clarity in user interfaces.
* Extend code coverage and modularity, supporting scalable implementations across various modules.
* Prepare and execute comprehensive test cases for coverage on new features and changes, validating with both local and UAT environments.
* Monitor, debug, and resolve workflow issues (e.g., CORS/API restrictions ..) to ensure seamless deployment.
* Push successfully tested changes to production with proper documentation and stakeholder confirmation
* Collaborate with stakeholders for requirement clarification, change approval, and implementation feedback.
* Address requests for enhancements, bug fixes, and history improvements, maintaining alignment with changing business priorities.
* Improve script structure and modularity, enabling efficient tracking, debugging, and extension of reporting and control features.
* Analyze and update technical configurations (such as API integrations and CORS settings) for optimal component function and reliability.
* Ensure best practices are followed in change management, versioning, and stakeholder communication throughout the report lifecycle.

**Environment:** Python, Flask, Python SDK, Pandas, React JS, JSON, Rest, Apache Web Server, ELK, VS Code, Windows.

**Client:** **Progressive Insurance, Cleveland, OH Jul 2022 – April 2024**

**Role: Python Developer**

**Responsibilities:**

* Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.
* Implemented PySpark using Python and utilizing data frames and temporary table SQL for faster processing of data.
* Used PySpark-SQL to load JSON data and create schema RDD, Data Frames and loaded it into Hive Tables and handled structured data using Spark-SQL.
* Implemented RESTful Web-services for sending and receiving the data between multiple systems.
* Developed and executed User Acceptance Testing portion of test plan.
* Generated Django forms to record data of online users and used PyTest for writing test cases.
* Assisted the development team in sending the correct data via query strings using PostgreSQL as the back-end for storing data.
* Experience in Microsoft Azure cloud platform and merge with python.
* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web-based solution.
* Design and implemented custom Bash scripts for controlling the data flow from the PostgreSQL database.
* Used PyQuery for selecting particular DOM elements when parsing. HTML5.
* This primarily consists of a Jenkins and Sonar server, the infrastructure to run these packages and various supporting software components such as Maven, etc.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Created a full web stack using AWS Infrastructure (Beanstalk, multiple lambdas, Amazon Aurora, API Gateway etc.) to create a fully functioning API using GraphQL technology with multiple data sources.
* Develop programs to automate the testing of controller in CI/CD environment using Python, Java, and Bash script.
* Demonstrated experience developing Grafana dashboards from Clinical messages by using MSSQL, MySQL, and PostgreSQL Data.
* Setting up the Dynatrace agents for application servers and Analyzing issue’s using the Dynatrace.
* Experience with Core Java and J2EE using most of the advanced features of Java including JDBC, Spring, Struts, EJB, Servlets, Hibernate
* Designed and Developed User Interface using front-end technologies like HTML, CSS, JavaScript, JQuery, AngularJS, Bootstrap and JSON.
* Worked on Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval. Worked in development of applications especially in UNIX environment.
* Developed the web pages in ASP.NET using .NET framework in C#.NET and application programming interface.
* Used Django Framework in developing web applications to implement the model view control architecture along with Django's ORM model.
* Parsed the unstructured data into semi-structured format by writing complex algorithms in PySpark.
* Used Pandas library for statistics Analysis &NumPy for Numerical analysis.
* Performed dynamic UI designing with HTML5, CSS3, less, Bootstrap JS, JavaScript, JQuery, JSON and AJAX. Utilized PyUnit, the Python Unit test framework, for all Python applications and used Django Database APIs to access database objects.
* Involved in writing SQL queries implementing functions, triggers, cursors, object types, sequences, indexes etc.
* Designed templates for displaying HTML with Ruby files
* Implemented front-end with Angular.js, React.js, WebSockets, TypeScript. Performance optimization. Mapping (ORM) solution, technique of mapping data representation from MVC model to Oracle Relational data model with an SQL-based schema.
* Designed and implemented open source AI frameworks like PyTorch, Tensorflow, and Scikit-learn.
* Responsible for Parsing XML data using XML parser and Testing, fixing of the bugs and coding modifications.
* Used Django configuration to manage URLs and application parameters.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in database and manipulate files.

**Environment:** Python, Django, HTML5, CSS3, XML, AJAX, Bootstrap, PostgreSQL, JavaScript, JQuery, PyQuery, PostgreSQL, T-SQL, Dynatrace, JavaScript, Eclipse, Git, ORM, Linux, Ruby ,Tensorflow, Shell Scripting, Oracle, Windows.

**Client: Sun Life Financial, Boston, MA Sep 2020 – Jul 2022**

**Role: Python Developer**

**Responsibilities:**

* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Developed internal auxiliary web apps using Python Flask framework with Twitter Bootstrap CSS3 / HTML5 framework.
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Developed user interfaces using HTML5 and JavaScript.
* Developed UI using CSS3, HTML5, JavaScript, JQuery and JSON. Developed dynamic webpages through HTML5, CSS3, JavaScript and AJAX.
* Developed Business Logic using Python on Django Web Framework.
* Used Pandas library for statistical Analysis.
* Microservices architecture development using Python and Docker on an Ubuntu Linux platform using HTTP/REST interfaces with deployment into a multi-node Kubernetes environment.
* Developed the back-end web services using Python and Django REST framework.
* Created a Git repository and added the project to GitHub.
* Utilized Agile process and JIRA issue management to track sprint cycles.
* Wrote validation scripts in SQL to validate data loading.
* Used Python (NumPy, spicy, pandas, scikit-learn, seaborn) to develop variety of models and algorithms for analytic purposes.
* Configuring the WebSphere/WebLogic application server jvm’s with Dynatrace agents and setting up the Dynatrace setup for the production environment.
* Designed and developed the user portal using AngularJS 2 along with HTML, CSS and TypeScript.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Generated property list for every application dynamically using Python.   Created Business Logic using Python to create Planning and Tracking functions.
* Developed Single Page applications using AngularJS using components, directives using JavaScript, Backbone.js, TypeScript and NodeJS.
* Used several Python libraries like wxPython, NumPy and Matplotlib.
* Extensive use of Python/Perl scripts and UNIX in project development.
* Developed Ruby/Python scripts to monitor health of Mongo databases and perform ad-hoc backups using Mongo dump and Mongo restore.
* Built Elastic search, Log stash and Kibana (ELK) to store logs and metrics into S3 bucket using Lambda function.
* Experience in Open Telemetry Python SDK to collect and generate the application data for creating metrics and logs.
* Used Django configuration to manage URLs and application parameters.
* Automated RabbitMQ cluster installations and configuration using Python/Bash.
* Utilized PyQt to provide GUI for the user to create, modify and view reports based on client data.
* Developed complex web, middleware, and back-end systems in Python, SQL and Perl for Linux and Windows.
* Created PyUnit test scripts and used for unit testing.
* Worked with JSON based REST Web services.
* Designed and developed the UI of the website using HTML5, XHTML, AJAX, CSS3 and JavaScript.
* Used Django framework for application development.

**Environment:** Python, Django, PyQt, Python SDK, PyQuery, XML, Bash, HTML5, JavaScript, JSON, Rest, Apache Web Server, ELK, Git Hub, MySQL, Dynatrace, Open Telemetry, Ruby, RabbitMQ, Oracle, Windows.

**Client: Wellmark BCBS, Des Moines, IA Oct 2018 – Aug 2020**

**Role: Python Developer**

**Responsibilities:**

* Used Docker plugins to setup Docker containers for build slave for Jenkins.
* Used PyQt for the functionality filtering of columns helping customers to effectively view their transactions and statements. Implemented navigation rules for the application and page outcomes, written controllers using annotations.
* Used Python to write data into JSON files for testing Django Websites. Created scripts for data modelling and data import and export.
* Used PyUnit, the Python Unit test framework, to test the application.
* Worked with Caching using Django Caching Framework to improve the application performance.
* Carried out various mathematical operations for calculation purpose using python libraries.
* Used GIT repository for software configuration management and version control
* Used JIRA for tracking and Updating Project issue.
* Developing and deploying of Perl scripts, ControlM jobs, Progress and SQL queries.
* 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.
* Used Matplotlib Python library for data visualization and report generation. Created pie charts and bar graphs to display trends from data analysis.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries. Used TDD (Test driven development) methodology.
* Used BeatifulSoup python library for web scraping to extract important data from html5 and xml tags.
* Used several Python libraries like NumPy, Pandas and Matplotlib.
* Developed widgets for GUI using PyGtk modules of python.
* Developing in Rails and JavaScript/JQuery, hosting on AWS, using Redis and managing code in git.
* Angular.js is used to build efficient backend for client web application.
* Monitoring Splunk environment and performing health checks.
* Built various graphs for business decision making using Python Matplotlib library.
* Building security-focused content for Splunk, including creation of complex threat detection logic and operational dashboards.
* Used PyQt to implement GUI for the user to create, modify and view reports based on client data.
* Generated graphical reports using python package NumPy and Matplotlib.
* Installed Hadoop, Map Reduce, HDFS, AWS and developed multiple Map Reduce jobs in PIG and Hive for data cleaning and pre-processing.
* Designing the website using the Java script Library like React.
* Designed and maintained databases using Python and developed Python based API (Restful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Involved in the Analysis, design and architecture of the application and worked on requirement gathering and High-level design.
* Designed the user interactive web pages as the front - end part of the web application using various web technologies like HTML5, JavaScript, JQuery and implemented CSS3 framework Bootstrap for better appearance and feel.
* Utilized Python libraries wxPython, NumPy, Twisted and Matplotlib.
* Involved in MVC architecture using Django for web-based application in OOP concepts.

**Environment:** Python, Django, Python scripting, NumPy, Matplotlib, PostgreSQL, MySQL, AJAX, SOAP, REST, JQuery, JavaScript, Bootstrap, Docker, GIT, Jira, Oracle, Windows.