Navatha.K

Python Developer

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**Summary :**

* 10+ Years of experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support, and Implementation of various stand-alone, client-server enterprise applications**.**
* Experienced in Automating, Configuring, and deploying instances on AWS, Azure environments, and Data centers, also familiar with EC2, Cloud watch, Cloud Formation and managing security groups on AWS.
* Good experience in **WebPy, BottlePy,Flask, Django** Framework.
* Experience in developing applications using **socket programming**(TCP/IP and UDP)
* **Private Cloud Environment** - Leveraging **AWS** and **Puppet** to rapidly provision internal computer systems for various clients.
* Have experience in **Agile** Methodologies, **Scrum** stories, and **sprints** experience in a **Python**-based environment, along with **data analytics, data wrangling,** and **Excel** data extracts.
* Expertise in Object-Oriented design and coding. Good knowledge of various Design Patterns and UML.
* Proficient in SQL databases **MS SQL, MySQL, Oracle, no-SQL, MongoDB**
* Hands-on experience in **Unix and Linux** Kernels.
* Had experience in building custom Linux OS.
* Proficient in front end development experience using **HTML, XML, CSS, JQuery, JSON,** **Javascript, Bootstrap, Node.js, Angular.js.**
* Have used **React JS** to build interactive user interface and web applications.
* Hands-on experience in **SVN, Git, JIRA, Bugzilla.**
* **Good knowledge of web services with protocols SOAP, REST.**
* Experience in developing web-based applications using **Python 2.7/2.6, Django 1.4/1.3,PHP,Angular JS, C++, XML, CSS, HTML, DHTML, JavaScript and JQuery**.
* Know about DevOps CI/CD to introduce ongoing automation and continuous monitoring throughout the lifecycle of apps from integration and testing phases to delivery and employment.
* Experience in database development using the relational and non-relational database.
* SQL and PL/SQL programming, developing complex code units, database triggers, and using the latest features to optimize performance (Bulk Binds, Materialized views, Inline views, Global Temporary Tables).
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Extensively used **UNIX shell Scripts** for automating batch programs.
* Have good communication skills, critical thinking ability, problem-solving, excellent teamwork, creative knowledge.

**Technical competencies:**

**Programming Languages:** Python, SQL

**Python Libraries:** memcache, pika, UnitTest, JSON,CSV, XML, XLS

**Python Framework:** Webpy, Bottlepy, Django, Flask

**Version Control Tools:** Git, Github, Gitlab,SVN

**Bug Tracking Tools:** Jira, Bugzilla

**Database:** Sqlite3, MongoDB

**Operating System:** Unix, Linux, Windows

**Software Development Lifecycle:** Agile Methodology, Scrum framework

**Professional Experience:**

***Client: Fidelity Information Services - Atlanta, GA*** *Nov 2020 – Present*

***Role: Senior Python Developer***

**Project Title: DigitalOne and D1Flex devlopment.**

**Project description:** I am working in a DigitalOneFLEX project here my day to day duties will be handling the issues of mobile and online banking applications.I use various tools like Customer Support tools where all the bank user activities will be configured. Using splunk logs we will trace the bug. We use Web Admin applications to configure the business both online and mobile.I will review the incident and research the issue then take necessary action and involve the Operations or Service Delivery teams accordingly.My project management skill has been used to track the issue and resolve the incident in minimal time.Using SQL trace i will trace the error or update the info in DataBase.My team collaboratively works with almost 4 to 5 teams where I will be responsible to assign the tasks to respective teams.I act as a Knowledge Coach too where we will create an article on new and critical issues.

**Roles & Responsibilities:**

* Developed and maintained Python ETL scripts to scrape data and load cleansed data into a DB.
* Have developed Online Account Opening (OAO) application for the banking sector.
* Participating in the agile release planning, Sprint Planning Sessions, backlog grooming sessions as per client agile guidelines. Involving in complete 'Agile Development Methodology/SCRUM'
* Have used Pl/SQL for database building.
* Using Bitbucket have built the banking logos and applications.
* Using frameworks like Django, Flask, FastAPI building secure, scalable, and user-friendly web applications for customers to manage their accounts, view transactions, and process claims.
* Notepad++ has been used for a programming basis.
* Developing RESTful APIs to support mobile banking applications.
* Implementing microservices for various banking functions like authentication, transaction processing, and claims management.
* Using python Numpy has provided high performance of the objects and also to perform wide variety of mathematical operations.
* Have pulled snow tickets to update the global properties of the banks
* Have designed the logos for the banks.
* Have used React JS to create fast user interface.
* Enhancing customer service through Amazon Connect and Amazon Lex (for building conversational interfaces).
* Pyspark has been used to large scale data processing using Apache spark.
* Have used gitlab, github, Bitbucket, splunk, snowcentral , jira, powershell etc
* Conduct systems design, feasibility, and cost studies and recommend cost-effective cloud solutions such as Amazon Web Services (AWS).
* Experienced in developing Web Services with Python programming language.
* Have worked for the Alma Bank, Bank Star, Peoples Bank, etc.

**Environment:** Python,ETL,Oracle PL/SQL 12C, Node, Bitbucket, Notepad++, powershell, Github, Gitlab, Bitbucket, SnowCentral, Numpy, PANDA,ML

***Client: Prudential life Insurance - Roseland, NJ*** *July 2018 – Nov 2020*

***Role: Senior Python Developer***

**Roles & Responsibilities:**

* Responsible gathering requirements, system analysis, design, development, testing, and deployment.
* Used Code *coverage* to measure of the degree to which the source *code* of a program is executed.
* Automating claims processing with AWS Lambda, Amazon S3, and Amazon DynamoDB to handle document uploads, approvals, and settlements efficiently.
* Using GraphQL constructed requests to pull data from multiple data sources in a single API call.
* Built a VPC, established the site-to-site VPN connection between Data Center and AWS.
* Enhancing customer service through Amazon Connect and Amazon Lex (for building conversational interfaces).
* *Coverity* analysis tool often used in the industry to find both trivial and non-trivial bugs in the code.
* Participated in the complete SDLC process.
* Development of web application using MEAN Stack technologies (MongoDB, ExpressJS, Angular4, NodeJS) along with HTML5, CSS3, JavaScript, jQuery, Bootstrap, and other web technologies.
* Using data analysis and predictive modeling to assess insurance risks and determine premiums as a part of risk assesment.
* Hands-on experience in **Unix and Linux** Kernels.
* SQL is often used in ETL (Extract, Transform, Load) processes to extract data from various sources, transform it into the required format, and load it into a destination database.Have used Pyspark to create more scalable analysis and pipelines
* Used Python Numpy to provide powerful data structures.
* Managing database such as modifying the database, backup, updating in the server (Files and database).
* Using DevOps Jenkins built and tested the software projects continuously making it easier for developers to integrate changes to the project and making it easier for users to obtain a fresh build.
* Amazon IAM service enabled to grant permissions and resources to users. Managed roles and permissions of users with the help of AWS IAM.
* Used ML to monitoring the product in every stage.
* Using PANDA have done the data statistical analysis data inspection like loading and saving data.
* Wrote Python Scripts to get required data for billing from the database.
* Wrote Python Scripts to run e-bills in the background.
* Web designs with the help of Web technologies like HTML, CSS, JavaScript, and JQuery.
* Configured AWS Multi-Factor Authentication in IAM to implement 2 step authentication of user's access using Google Authenticator and AWS Virtual MFA.
* Wrote Python Scripts to Create e-bills in pdf format.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Created a Git repository and added the project to GitHub.

**Environment:** Python, AWS, Web Services in C#.net, PHP, MySQL, Git, MongoDB, ExpressJS, Angular4, , Numpy, PANDA,ML NodeJS, Gitlab.

***Client: East Star Pharmacy - NY*** *Nov 2017 - June 2018*

***Role: Python Developer***

**Roles & Responsibilities:**

* Analysis and Design of application.
* Familiarity with Tornado, Robot test framework, Continuous Integration environment (Jenkins), SDN, network switches/routers, and DevOps a plus.
* Created scripts in Python (Boto) which integrated with Amazon API to control instance operations.
* Wrote Python modules to extract/load asset data from the MySQL source database.
* Designed and implemented a dedicated MYSQL database server to drive the web apps and report on daily progress.
* Developed views and templates with Python and Django’s view controller and templating language to create a user-friendly website interface.
* Created the entire application using Python, Django,Flask, MySQL, and Linux.
* Implement or leads the implementation of complex solutions with minimal technical debt. Develop solutions that are easy to deploy, maintain, and are bug-free.
* Created AWS Multi-Factor Authentication (MFA) for instance RDP/SSH logon, worked with teams to lockdown security groups.
* Participating fully in the development process through the entire software lifecycle.
* Participating fully in the Agile software development process.
* Using code coverage analyzed how comprehensively a software is verified.
* The work will involve the development of workflows triggered by events from other systems.
* Used Coverity to fix the defects in Python programming.
* Iterate rapidly and work collaboratively with product owners, developers, and other members of the development team.
* Work closely with Teams across the BU to create comprehensive test tools and automation frameworks.
* Works with other team members, including DBA's, Other ETL developers, Technical Architects, QA, Business Analysts & Project Managers.
* Follow and improve established processes for the software development life cycle with an agile approach to deliver software.

**Environment**: Python, MFA, LINUX, Django,Flask, MySQL, Code coverage and Coverity.

***Client: Bank of Tokyo - NYC, NY*** *March 2016 – Sep 2017*

***Role: Junior Python Developer***

**Roles & Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing, and deployment.
* Participated in the complete SDLC process
* Created and maintained the Python deployment scripts for the Web Sphere web application server.
* Developed Billing modules for getting summarized and detailed information on invoice information and processing that invoices to billing.
* Developed an AMQP mechanism using RabbitMQ to transfer data asynchronously between billing modules.
* Used Code coverage  to understand how much of the source is tested.
* Build DataSync job on Windows Azure to synchronize data from SQL 2012 databases to SQL Azure.
* Tracked the status of e-bills generation and bills that are dropped in between the billing process.
* Tracked the status of e-bills at each module while the billing process is running.
* Wrote an Automation script for the billing process to generate e-bills on a triggered interval.
* Wrote front-end code to display information e-bills by calling e-bills status finding web services.
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Designed and configured database and back-end applications and programs.
* Created a Git repository and added the project to GitHub.
* Develops processing, archiving, and recovery procedures for systems. Provides production procedures for programs.
* Develop relationships with the Quant and Financial Development Teams to resolve pricing-related issues.
* Coordinate, communicate and provide technical support to other functional groups relating to web applications.
* Development of at least one (1) NSA TYPE I security product using NSA IAD security practices.
* Investigate new technologies, tools, and processes and make recommendations for adoption.
* Network Security.
* Contribute to the design and development of application features

**Environment**: Python, MySQL, Memcached, Eclipse, Shell Scripting

***Client: Tavant Technologies - Bangalore, India*** *Dec 2012 – Dec 2015*

***Role: Oracle PL/SQL Developer***

**Roles & Responsibilities:**

* Involved in customizing the existed programs and developed the PL/SQL procedures depending on the client requirements.
* Web designs with the help of Web technologies like HTML, CSS, JavaScript, and JQuery.
* Applied PL/SQL packages that have procedures and functions.
* Involved in performing the business reviews, analyzing the business requirements, designing the system documents, flows, preparing the test plans, and in the development of workflow charts which are necessary for the business process.
* To fetch the rows used cursors extensively.
* Can able to create the materialized views, collections, sequences, triggers.
* Experienced in development and also in the testing of oracle back-end objects which are like database triggers, stored procedures, sequences, and synonyms.
* A hand full of experience in design, development, and modification of PL/SQL stored procedures, functions, packages, and triggers that are necessary to implement the business rules into the application.
* Can able to create the customized forms and reports according to the user requirements with the help of Oracle Developer Forms & Reports.
* Used SQL Loader and UTL\_FILE to load the data.
* Tuned the SQL Queries for the creation of database objects and optimally set storage parameters for the indexes and tables.
* Experience in designing the reports by using reports according to the user requirements. Designed the reference and master/Detail tables for storing the information. Tested the forms and reports using test data.
* To insert the data into database tables used shell scripts. Developed the PL/SQL code to retrieve the data for master and detail blocks.
* To know the customer requirements interacted with the business clients in remote locations.

**Environment: SQL, SQL \*PLUS, PL/SQL, ORACLE 9i, UNIX Shell Scripting, Windows, TOAD**

**Education:**

* **Master’s Degree in Computers and Information Assurance** (Graduated in 2017)

Wilmington University New Castle, DE

* **Bachelor’s Degree in Science** (Graduated in 2010)

**References:** Provided upon request…