**Deepti Hiremath**

**Python Developer**

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**669-281-6146**

# Professional Summary:

* 16+ yrs of experience in Telecom Operations Support Systems and Business Support Systems.
* **7+ years** of professional experience as a **Python Developer**, with experience in Design, Development, Implementation of **Python**, **Django**, and client - server technologies-based applications, **FastAPI , Django Rest Framework, AWS** and SQL.
* Experience **in Python Data Prediction models using Cosine similarities** and **Word to Vector/Doc** using libraries: **Gensim**, **Numpy, Matplotlib,Plotly, Pandas** and **EasyOCR.**
* Experience in using Design Patterns such as **MVC**, **MS Outlook based SSO Authentication/Authorization , JWT Authentication** , Class-Based Views and **Integration with Payment Apps like RuPay** /**webhooks** .Ability in handling **Django ORM** (Object-Relational Mapper) and **SQLAlchemy**.
* Built Web applications that utilizes **FastAPI, Python and Django** to automate Lifecycle of Mobile **SIM Registration**, Process Calls and Calculate Data Throughput. Integrated Python scripts with for **Android Debug Bridge**
* Experience with **Design, code, debug operations, reporting, data analysis** and **Web Applications** utilizing **Python**.
* Experienced in implementing **Object Oriented Python, Asyncio, Co-routines, ThreadPoolExecutor ,Concurrency, GIL** and **Collections** using **Python**.
* Worked with MVW frameworks like **Django, JS, HTML, CSS, XML, Java Script, jQuery, Bootstrap.**
* Experience of test and verification of embedded and real time systems as well as Docker Containers.
* Scaled up Web applications with enhanced **Data modelling and Caching methods.**
* Experience in using Version Control Systems like the one **GIT**, **SVN and Clear Case** to keep the versions and configurations of the code organized.
* Experience in **UNIX/Linux shell** scripting for job scheduling, batch-job scheduling, automating batch programs, forking and cloning jobs.
* Exposure to **CI/CD** tools - Jenkins for Continuous Integration and continuous deployment.
* Experienced in building tools such as **ANT**, **Apache MAVEN**, and **JENKINS**.
* Good Experience on testing tools like **JIRA** and **Bugzilla** for bug tracking.
* Experienced in installing, configuring, modifying, testing, and deploying applications with Apache.
* Understanding of Python Best Practices (PEP-8).
* Experience in **Production Cloud Deployment using gunicorn/ngnix configuration and Amazon Web Services (AWS).**

# Technical Skills:

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| **Programming Languages** | Python 2.X, Python 3.X, Java, SQL |
| **Frameworks** | Robot Framework, Django,FastAPI, Django Rest Framework,Selenium |
| **Web Technologies** | HTML, jQuery, XML, CSV JSON, AJAX, Bootstrap,node.js |
| **Build/CI Tools** | Maven, Log4j, Jenkins, GNU, Apache Ant, Apache Maven, ngnix |
| **Databases** | MySQL, PLSQL, Oracle, Microsoft SQL, PostgreSQL, SQLAlchemy |
| **Operating Systems** | Windows, Linux, UNIX |

**Professional Experience:**

# Client: Nokia Oct 2016 – Mar 2023

**Title: Technical Leader**

**Responsibilities:**

* Conceptualized and delivered **Auto-TestCase Generator app** using libraries**: Gensim, word2vec COSINE similarities. Trained data models using ElasticSearch and Sentence\_Transformers**
* Developed custom **Optical Character recognition tool,** which reduced Inventory Management effort by 30 %.
* Developed entire frontend and backend modules using Python on Django Web Framework by implementing MVC architecture.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, Bootstrap, Ajax,jQuery
* Well versed with **Asynchronous Development, Coroutines, Futures, asyncio and FastAPI**
* Experience in creating Docker containers leveraging existing Linux Containers.
* Creating RESTful web services for Catalog and Pricing with Django MVT, MySQL and FastAPI
* Deployed and monitored scalable infrastructure on **Amazon web services (AWS).**
* Implemented monitoring, established best practices around **using Elastic search, and used AWS S3** to run code on **Cloud/Production Servers.**
* Generated graphical reports using python package Numpy and Matplotlib.
* Performed efficient delivery of code based on principles of Test Driven Development (TDD) and Continuous integration to keep in line with Agile Software Methodology principles.
* Worked with **PIP, requiremnts.txt, and package hosting in PYPI server for** managing python modules.
* Abided by **PEP8 ,Flake8** Python coding standards.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Used Amazon Web Services (AWS) for improved efficiency of storage and fast access.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Use of API, **Open ELK (Elastic Search + Kibana Framework)** for Data Modelling
* Wrote Python routines to log into the websites and fetch data for selected options.

# Client: Nokia/Redknee/Comptel Oct 2010 – Sep 2016 Title: Sr. Automation Tester

**Responsibilities:**

* Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.

## Used Selenium Framework and Groovy to automate SOAP Requests

* Experience with **Unit testing/ Test driven Development (TDD), Load Testing using Jmeter.**
* Used Java to place data into **JSON files for testing Selenium** web apps.
* Organized **Python code using PEP8** online tool including documentation of scripts.
* Created Pipeline jobs for CI/CD applications.
* Sole engineer responsible for automated test design, frontend and backend feature implementation, and any other improvements to the test automation framework.
* Used RDMS, Python scripts to update content in the database and manipulate files.
* Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.
* Wrote and executed various MYSQL database queries from Python **using Python-MySQL connector** and MySQL dB package.
* Worked on **rebranding** the existing web pages to clients per the type of deployment.
* Responsible for debugging the project monitored on JIRA (Agile)
* Analyzed performance test requirements and developed test plans and have done debugging to understand test objective requirements.
* 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.
* Have rich experience on testing REST Full API like Facebook API for **Telecom Charging and Billing apps.**
* Worked on Technologies: Java, TestNG, and unit test, UML API and Json.

# Client: IBM Jan 2007 – Oct 2010

**Title: System Engineer**

# Responsibilities:

* Participated in all the stages of the software development lifecycle (SDLC) like design, testing development and implementation.

## Well versed with SIEBEL Order Management and Oracle Charging and Billing SAAS product.

* Good knowledge of Fixed Line Provisioning, Mobile Virtual Network Operator Processes.
* Understanding of Oracle Billing Resource Management for Billing Discounts, Data Waiver.

## Wrote Unix, Shell scripts to automate CLI commands for SIEBEL and IBM Web Services

* Added the navigations and paginations and filtering columns and adding and removing the desired columns for Business Analytics and SAP BRM
* Actively participated in System Testing, production support and maintenance/patch deployments.
* Worked on Client development environment and used Rational ClearCase for versioning.
* Developed SQL Queries, Stored Procedures, and Triggers Using Oracle 9i SQL, PL/SQL.
* Designed and developed data management system using MySQL
* Created Groovy scripts to automate SOAP requests for testing Mobile Billing /Charging features.