Pragnya Tatipala

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**Professional Experience**

* Around **6+ years** of professional experience in I.T Industry with strong hands on analysis, design and development of enterprise applications using **Python Programming**
* Equipped with the knowledge of various software's, organizing technical demonstrations with sound understanding and skill of creating new software & systems, designing, analysis, testing, database development and coding for modules while structuring customized solutions to meet customer's specific needs.
* Strong experience of software development in **Python Libraries**: Beautiful Soup, NumPy, SciPy, Matplotlib, python-twitter, Pandas dataframe, network, urllib2, MySQL dB for database connectivity and **IDEs** - Sublime text, Spyder, PyCharm, Eclipse, Emacs.
* Good experience in Python in creating scalable and robust applications along with other technologies. Proficient in developing **Web Services** (SOAP, RESTful) in Python using **XML**, **JSON**.
* Extensive experience in developing web pages using **HTML/HTML5**, **XML**, **DHTML** **CSS/CSS3, SASS, LESS, JavaScript, React JS, Redux, Angular JS (1.X) JQuery, JSON, Node.js**, **Ajax, JQUERY Bootstrap**.
* Hands on experience working in **WAMP** (Windows, Apache, MYSQL and Python/PHP) and **LAMP** (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Expertise in practicing the **SDLC models**, **agile methods** **with Scrum**, **Extreme Programming**, **Ticketing systems using JIRA** and **Test-Driven Development (TDD)**.
* Experienced in developing web-based applications using **Python**, **Django**, **PHP**, **C++**, **XML**, **CSS**, **HTML**, **DHTML**, **JavaScript**, **jQuery**, **MVC3**, **Bootstrap**, **RESTful**, **RUBY** and **AJAX**.
* Expertise in working with different databases like **Oracle**, **MySQL**, **PostgreSQL** and Good knowledge in using **NoSQL** database **MongoDB**.
* Developed **ETL** jobs in Python to extract, transform and load data into MySQL database
* Experience in implementing core cache and abstraction with Jasmine and Redis cache server.
* Good experience in **developing web applications** and **implementing Model View Control (MVC) architecture** using server-side applications like **Django, Flask, Web2Py** and **Pyramid**.
* Excellent experience with python development under **Linux OS** (Debian, Ubuntu, SUSE Linux, Red Hat Linux).
* Well versed with Version control systems such as **Git**, **SVN** and **CVS**.
* Worked on Several deployment tools using **Google Cloud**, **Jenkins**, **Ansible**, **Pylint**, **cpp Check** and **Coverity**.
* Used **PySpark dataframes**, caching and persisting techniques to improve job performance.
* Good at using libraries for technical development like PySpark, Beautiful Soup, Pandas dataframe, and MySQL for database connectivity to drive improvements throughout entire software development lifecycle. Solid understanding of MVT design patterns.
* Experience in project deployment using **Google Cloud/Jenkins**, **Elastic search** and using web Services like **Amazon Web Services (AWS)**.
* Experienced in implementing Cloud solutions in **AWS** (EC2, EMR. S3, Cloudwatch, Lambda, Cloudtrail, SNS, SES, EBS, CLI, VPC, ELB, IAM, Redshift, RDS, Root53), **Google Cloud**, **Microsoft Azure**.
* Experience in using UNIX Shell Scripts for automating batch programs.
* Proficient in developing complex SQL queries, **Stored Procedures**, **Functions**, **Triggers**, **Cursor** and **Packages** along with performing **DDL** and **DML** operations on the MySQL and PostgreSQL database and Modified Stored Procedures and complex T-SQL Queries to improve query execution process.
* Strong knowledge with **REST API** development and good idea using debugging tools like **Bugzilla** and **JIRA**.
* Good experience in developing web applications implementing Model View Control architecture using Django, Flask and Pyramid Python web application frameworks.
* Basic understanding of protocols/technologies like HTTP, LDAP, JDBC, SSL, Servlet/JSP, SQL, HTML, XML.
* Knowledge about setting up Python REST API Frame work using Django and Flask.
* Good at writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle, MySQL, PostgreSQL, DB2.
* Having good knowledge in using **NoSQL** databases like **Apache Cassandra 3.11** Couchbase, **Kubernetes** and **Mongo DB 4.0** Orient DBF net.
* Excellent understanding of **Cassandra Architecture** and management tool like **OpsCenter**
* Experience in data modeling of Cassandra.
* Good knowledge of Cassandra-Spark connector to load data to and from Cassandra
* Good knowledge of data modeling techniques in Cassandra.
* Having experienced in **Agile Methodologies**, **PCI**, **Scrum stories** and sprints experience in a Python based environment, Data analytics, data wrangling and Excel data extracts.
* Worked on various operating systems like Windows, UNIX and LINUX. Experienced in **Shell Scripting** and **UNIX** **commands**.
* Experience in deploying applications in heterogeneous **Application Servers TOMCAT**, **Web Logic** and **Oracle Application Server**.
* Experience in working with SQL Alchemy in connecting with databases like Mongo DB, Cassandra, Oracle and MySQL.
* Familiarity with development best practices such as code reviews, unit testing, **System integration testing (SIT)** and **User acceptance testing (UAT)**.
* Proficient in using editors Eclipse, Visual Studio Code, PyCharm, Py Scripter, Notepad++ and Sublime Text while developing different applications.
* Expertise in performing Unit testing using Pyunit framework and Test Automation used Robot Framework along with Error Logging using Sentry.

**Core Skills**

* **Languages/Scripts:** Python, Java, JavaScript, Perl Script, Power Shell Script, pyspark.
* **Frameworks:** Django, Flask, Pyramid
* **DevOps / Build Tools:** Chef, Puppet, Docker , Ansible, Jenkins, Hudson, Ant, Maven, Gradle
* **Version Control:** Subversion (SVN), GIT, GitHub and Code Commit.
* **Bug tracker & Testing:** JIRA, Bugzilla, Junit, HP Quality Center, Test Flight, Test Rail, Remedy, TFS
* **Cloud Services:** Amazon Web Services EC2, S3, ELB, Autoscaling Servers, Glacier, Storage Lifecycle rules, Elastic Beanstalk, Cloud Front, Functional knowledge of Import/Export Snowball, Elastic Cache, RDS, Redshift, VPC, Direct Connect, Route 53, CloudWatch, Cloud trail, IAM &, Roles, SNS subscription service.
* **Web/App Servers:** BOSS, Apache Tomcat, IntelliJ IDEA, Oracle Web logic, IBM Web sphere/
* **Databases:** Oracle, DB2, MySQL, MongoDB 7, SQL Server, MS Sql.
* **Operating System**: Linux (Red Hat 4/5/6), UNIX, Ubuntu, Fedora, CentOS, Windows NT/2000/2003, 7,8,10 and iOS
* **CI/CD Tools:** Hudson/Jenkins, Bamboo, Build Forge, Collaborator.
* **Networking:** TCP/IP, NIS, NFS, DNS, DHCP, PKI, Dnssec, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP.

**Work Experience**

**Senior Python Developer**

**Mr. Cooper – Dallas, TX August 2018 to Present**

* Design and development of user interfaces and client displays using **JavaScript, JSP, CSS and troubleshoot** various issues in Python code and fix them with code enhancements- code used various python libraries such as **PyJamas and Jython**.
* AWS Cloud management and responsible for code build, release and configuration on **Amazon EC2**.
* Use of AWS including deploying new server instances through automation with **CHEF** and **Jenkins.**
* Worked as Devops Engineer for project teams that involved different development teams and multiple simultaneous software releases.
* Experience with container-based deployments using **Docker, working with Docker images**, **Docker Hub and Docker-registries and Kubernetes**.
* Converted a monolithic app to microservices architecture using Spring Boot using 12-factor app methodology. **Deployed, Scaled, Configured,** wrote manifest file for various Microservices in PCF.
* Implemented **REST Microservices** using **spring boot**. Generated Metrics with method level granularity and Persistence using **Spring AOP** and **Spring Actuator**.
* Implemented Zipkins for distributed Micro Service Monitoring. Integrated Swagger UI and wrote integration test along with REST document.
* Built various graphs for business decision making using Python matplotlib library.
* Created Python and Bash tools to increase efficiency of call center application system andoperations; data conversion scripts **REST, JSON, and CRUD** scripts for API Integration.
* Developing Python Framework using Django to perform scan software unit monitoring.
* Designed the front end of the application using **Python, HTML, CSS, AJAX, JSON** and **JQuery.**
* Worked on backend of the application, mainly using Active Records.
* Developed and tested many features for dashboard using **Python, Bootstrap, CSS, and JavaScript**.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes, Created Pods and managed using Kubernetes**
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, **Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy**.
* Used **Git and Jira** for code submissions and review process.
* Managed code versioning **with GitHub** and deployment to staging and production servers.
* Involved in writing automation scripts using Python-Selenium to test the functionality of the web pages and also written Socket programming scripts to bridge communication in between Client-Server.
* Actively involved in analysis of the system requirements specifications and involved in client interaction during requirements specifications.
* Added support for **Amazon AWS S3 and RDS** to host static/media files and the database into Amazon Cloud.
* Experience in agile environment using a CI/CD model methodology.
* Performed Unit testing, Integration Testing.
* Involved in designing mobile search application system requirements and coded back-end and front-end in **Django/Python.**
* Carried out various mathematical operations for calculation purpose using Python libraries numpy.

**Python Developer**

**SWIFT – Culpeper, VA Jan 2018 to July 2018**

* Design, develop, test, deploy and maintain the **web application**.
* Used spring configuration server for centralized configuration and Splunk for centralized logging. Used Concourse and Jenkins for **Microservices deployment**.
* Experience and good knowledge in AWS (Amazon Web Services) services like **EC2, S3, Glacier, Elastic Load Balancer (ELB), RDS, SNS, SWF, Cloud watch, Route53 and Lambda**.
* Performed AWS Cloud administration managing **EC2 instances, S3, SES and SNS** services.
* Created Buckets in AWS and stored files. Enabled Versioning and security for files stored.
* Developed microservice on boarding tools leveraging **Python and Jenkins** allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Designed and developed data management system using MySQL.
* Rewrite existing Java application in Python.
* Wrote python scripts to parse XML documents and load the data in database.
* Performed testing using **Django's Test** Module.
* Worked on middle tier and persistence layer. Created service and model layer classes and Value objects/POJO to hold values between java classes and database fields.
* Exported/Imported data between different data sources using SQL Server Management Studio.
* Maintained program libraries, users' manuals and technical documentation.
* Responsible for debugging and troubleshooting the web application.
* Successfully migrated all the data to the database while the site was in production.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of python code using a web browser.
* Hand full experience on LINUX operating system.
* Experience in using **Git, GitHub, and Amazon EC2** and deployment using Heroku.
* Used extracted data for analysis and carried out various mathematical operations for calculation purpose using python library - **numpy, scipy**.
* Built various graphs for business decision making using Python matplotlib library.
* Maintained technical documentation for resolved issues for future reference.

**Python Developer**

**Tixdo - Pune Nov 2015 to Dec 2016**

* Managed datasets using data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector MySQLdB package to retrieve information.
* Created data access modules in python.
* Designed and developed components using Python with Django framework. Implemented code in python to retrieve and manipulate data.
* Worked on development of backend services using Python, SQL and Linux. Created many API's for Iscrum project which involves creating and maintaining projects in an organization and developed UI using HTML, CSS and JavaScript.
* Developed backend services and created many API's using Python Programming Language and SQL.
* Involved in developing a video calling application using python web-sockets.
* Performed research regarding Python Programming and its uses and efficiency.
* Developed GUI screens for XTT & LD application using JSP, HTML and CSS.
* Wrote JavaScript functions to get Dynamic data and Client side validation.
* Used JQuery to make the frontend components interact with the JavaScript functions to add dynamism to the web pages at the client side.
* Created Node.js middleware application server to encapsulate modern JS widget framework worked with JSON objects and JavaScript and JQuery intensively to create interactive web pages.
* Implemented web based front-end using HTML, CSS, JQuery, and AngularJS.
* Developed web Components using JSP, Servlets and Server side components using EJB under J2EE Environment.
* Rich UI development experience and well versed in client side technologies like AngularJS, JQuery, BackBone.js, Google Widget Toolkit, Sencha UI.
* Worked in Java, J2EE, XSL, XML, Oracle, DB2, Struts, spring, Hibernate, REST Web services, Model driven architecture and software configuration management tools.
* Created a Rich Single Page Application using HTML, CSS, AngularJS, JQuery and REST Services.
* Hosted GPU based Apache spark jobs using Scala for faster data processing and used spark SQL , pyspark for querying.
* Designed and implemented UI layer using JSP, JavaScript, HTML, DHTML, JSON, XML, XHTML, XSL, XSLT, XSL-FO and business logic using Servlets, JSP, EJBs and J2EE framework.
* Used Backbonejs, Node.js, Bootstrap and other JavaScript libraries to create intuitive and rich Single Page Applications.
* Involved in Requirement analysis, design and Implementation applying the Water fall model.
* Wrote Servlets programming and JSP scripting for the communication between web browser and server.
* Integrate the Oracle BPM with the Spring Framework in the enterprise layer.
* Involved in packaging, deployment and upgrade of different modules of SAS on JBoss App Server. VB code Analysis and Sybase store procedure converted into SQL.

**Python Engineer**

**Atos - Pune June 2012 to Oct 2015**

* Developed and maintained Python ETL scripts to scrape data and load cleansed data into a DB.
* Involved in understanding and analyzing the clients business, requirements for the system.
* Participated in the requirements analysis and technical assessments.
* Developed class diagrams/sequence diagrams using UML and Rational Rose.
* Used Struts2 framework and J2EE components to develop Action classes, backend processes, complex reports and database interaction.
* Configured and worked with Apache Server.
* To ensure cross-browser compatibility including IE 8, Firefox 3.5, Safari 4 and Chrome 4.0.
* Developed code obtaining bean references in Spring IOC Framework.
* Developed the application under J2EE architecture using JSP, Struts, Java Beans, iBATIS Data mapper.
* Involved in designing components with design patterns like Factory, Singleton, Front Controller, Business Delegate, DAO, DTO, and Facade.
* Involved in designing & coding of business logic using Spring IOC, Pure MVC & AOP features.
* Installed, configured, and maintained a continuous integration (build) server.
* Designed and developed Session beans to implement business logic.
* Designed and developed data persistence mechanism using Hibernate in Struts2 applications.
* Created SQL’s from views and queries to interact with multiple systems for data.
* Developed a robust administration and security system for access control and restrictions at application and user level.
* Used Web Logic and WebSphere Application server for Transaction management and hot code swapping.

**Education Details**

**Master's in Computer Science from New York Institute of Technology**