**Tarun Kumar**

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**Orlando - Florida**

**PROFESSIONAL SUMMARY:**

* Almost 8+ years of experience in Design, Development and analysis of Python, Django and client- server technologies-based applications
* Concept knowledge of Python libraries such as NumPy, Pandas, Requests, urllib3, Pyarrow,AWS CLI, Http for data analysis. Understanding of computing concepts including DataStructures (Linear Regression, Decision Tree) and file manipulation in Python
* Experience with **Design, code, debug operations, reporting, data analysis** and **Web Applications** utilizing **Python**.
* Experience in implementing **Object Oriented Python**, **Hash Tables** (**Dictionaries**) and **Multithreading, Django, MYSQL, Exception Handling and** **Collections** using **Python**.
* Strong experience of software development in Python (libraries used: **libraries** - **Beautiful Soup**, **NumPy,** **SciPy,** **Matplotlib,** **python-twitter, Panda’s data frame, network, urllib2, MySQL dB** for database connectivity) and **IDEs** - **sublime text, Spyder, emacs.**
* Experience in developing Web Services with Python programming language - implementing JSON based **RESTful** and **XML** based **SOAP** web services.
* Experience with Amazon Web Services (Amazon EC2, Amazon S3, Amazon Simple DB,Amazon RDS, Amazon Elastic Load Balancing, Amazon SQS, AWS Identity and accessmanagement, Amazon SNS, AWS Cloud Watch, Amazon EBS, Amazon CloudFront, VPC,Route 53, DynamoDB, Lambada and Redshift
* Experience in using Design Patterns such as **MVC**, Singleton and frameworks such as **DJANGO**, Ability in handling **Django ORM** (Object-Relational Mapper) and **SQL Alchemy**.
* Proficient in Python Open Stack **API'S** and **GUI framework - Pyjamas (for web).**
* Expertise with **MVW** frameworks like **Django,** **HTML5,** **CSS3,** **XML,** **Java Script,** **jQuery,** **Bootstrap.**
* Proficient in performing **PyCharm,** Data analysis and Data Visualization using Python libraries.
* Exposure in various Python Integrated Development Environments like **PyCharm, Spyder, and Sublime Text.**
* Skilled in deploying and configuring various AWS services including S3, EC2, EMR, Redshift, Glue, and Lambda. Proficient in integrating AWS data services with BI tools like Tableau and Power BI for interactive data visualization and reporting.
* Experience in Spark Architecture including **Spark Core, Spark SQL, Data Frames, and Spark** Streaming with **PySpark** and **PANDA** library.
* Experience in deploying applications in heterogeneous Application Servers **TOMCAT, Web Logic and Oracle Application Server.**
* Hands-on experience working with various Relational Database Management Systems (RDBMS) like **MySQL**, **Microsoft SQL Server, Oracle & non- relational databases (NoSQL) like** **MongoDB** and **Cassandra**.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in team environment.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Languages** | Python, C, C++, Java, SQL |
| **Web technologies** | HTML5, CSS3, XHTML, Java Script, jQuery, AJAX, XML, JSON |
| **Webserver** | Web Sphere, Web logic, Apache Tomcat, NGINX |
| **Python Frameworks** | Django, Pyramid, Flask, web2Py |
| **Python Libraries** | Requests, Scrapy, wxPython, Pillow, SQL Alchemy, BeatifulSoup, Twisted, NumPy, SciPy, Matplotlib, Pygame, Pyglet, PyQt, PyGtk, Scapy, pywin, ntlk, nose, SymPy, I python |
| **Development IDE** | PyCharm, Pydev Eclipse, Net beans, MS Visio, Sublime Text, Notepad++ |
| **Version Control** | Git-Hub, Sub Version |
| **Build Tools** | GNU, Apache Ant, Apache Maven, Buck, Bit-Bake, Boot, Grunt |
| **Databases** | MySQL, PLSQL, Oracle, Microsoft SQL, PostgreSQL, MongoDB, Cassesndra |
| **Operating Systems** | Windows Variants, Mac, Unix, Linux |
| Cloud Platforms | AWS (S3, EC2), GCP, Azure |

**Educational Details**:

* Bachelor’s degree in Electronics and Communications from MIC College of Technology – 2015
* Masters in Cybersecurity from Webster University – 2024

**PROFESSIONAL EXPERIENCE:**

**Client:** **Lurie Children’s Hospital, IL Oct 2022 – PRESENT**

**Role: Python Developer**

**Description:**

Experienced in developing and automating workflows using Python, Django, and AWS. Skilled in gathering and analyzing business requirements, and creating efficient Django ORM queries. Proficient in Python unit testing, Django forms, and developing views and templates. Expertise in AWS services including EC2, S3, Lambda, and RDS, with experience in setting up and managing infrastructure using CloudFormation. Developed and optimized data processing and visualization solutions using Pandas, NumPy, and Matplotlib. Skilled in web development with HTML5, CSS3, JavaScript, and Angular.js. Experienced in API development with Flask, and proficient in managing databases using SQLAlchemy and PostgreSQL. Adept at troubleshooting and optimizing Python applications.

**Responsibilities:**

* Analyzed and gathered business requirements specifications by interacting with client and understanding business requirement specification documents.
* Worked on Automate different workflows, which are initiated manually with Python scripts and UNIX shell scripting.
* Worked on Create, activate and program in Anaconda environment.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.
* Worked on Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile Software Development methodologies.
* Worked on Python Django forms to record data of online users and used PyTest for writing test cases.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
* Migrated on premise Services and Database to AWS services such as EC2,Lambda, S3, and RDS to reduce operational costs
* Setup and build AWS infrastructure various resources, VPC, EC2, S3, IAM, EMR, LAMBDA,AMI, SNS, CLOUD WATCH, Security Group, Auto Scaling, and RDS in Cloud FormationJSON templates
* Extensively worked on clean data and processed third party spending data into maneuverable deliverables within specific format with Excel macros and python libraries such as NumPy, SQLAlchemy and Matplotlib.
* Synchronize data with server using SASS, JavaScript, Bootstrap, and Angular.js. and proficient inAWS services like VPC, EC2, S3, ELB, EMR, Autoscaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront
* Worked on developing entire frontend and backend modules using Python on Django Web Framework.
* Worked on Pandas as API to put the data as time series and tabular format for manipulation and retrieval of data.
* Developed remote integration with third party platforms by using RESTful web services and Successful implementation of Apache Spark and Spark Streaming applications for large scale data.
* Built various graphs for business decision making using Python Matplotlib library.
* Worked on python, Jupyter, Scientific computing stack (NumPy, SciPy, pandas and Matplotlib).
* Involved in the Web/Application development using Python, HTML5, CSS3, AJAX, JSON and JQuery.
* Performed on 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.
* Worked on Scraping website using Python Beautiful Soup, and then parsed it with XML.
* Worked on Python scripts to parse JSON documents and load the data in database.
* Managed code versioning with GitHub, Bit Bucket and deployment to staging and production servers and implement MVC architecture in developing the web application with the help of Django framework.
* Worked on various capacity planning reports (graphical) using Python packages like NumPy, Matplotlib.
* Worked on analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various Python libraries.
* Develop and tested many features for dashboard using Python, Java, Bootstrap, CSS3, JavaScript and JQuery.
* Deploy and configure AWS services, including Amazon S3, EC2, EMR, Redshift, Glue, and Lambda, ensuring optimal performance and security.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Used JavaScript and JSON to update a portion of a webpage.
* Develop consumer based features using Django, HTML5.
* Developed Python web services for processing JSON and interfacing with the Data layer.
* Increased the speed of pre-existing search indexes through Django ORM optimizations.
* Manage datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.
* Worked on migration from the old server to Jira database (Matching Fields) with Python scripts for transferring and verifying the information.

**Environment:** Python, Django, NumPy, SciPy, PyCharm, RabbitMQ, Matplotlib, PostgreSQL, HTML5, CSS3, JavaScript, Jupyter Notebook, Shell Scripting, JIRA, MS SQL Server, MySQL, Oracle, Windows.

**Client: Davita, MD Jan 2020 – Sep 2022**

**Role: Python Developer**

**Description:**

Experienced in full project lifecycle management, including design, development, testing, deployment, and support. Proficient in developing Python scripts for data extraction, JSON parsing, and database interactions using Flask, SQL Alchemy, and PostgreSQL. Skilled in creating and optimizing Django ORM queries and MVC architecture applications. Developed interactive user interfaces with HTML5, CSS3, JavaScript, Bootstrap, and JQuery. Implemented and tested features for dashboards and web applications using Django, CSS3, and JavaScript. Experienced in developing RESTful APIs and machine learning algorithms on big data platforms. Adept at using AWS Lambda for scalable serverless functions and following Agile methodologies for project management.

**Responsibilities:**

* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Developed scripts in Python for extracting data from HTML5 file.
* Designed and developed of user interfaces and client displays using Java Script, CSS3 and troubleshoot various issues in Python code and fix them with code enhancements.
* Worked on Python scripts to parse JSON documents and load the data in database.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Worked on existing and created Python script for Encryption and Decryption according client’s requirements.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.
* Worked on MVC architecture in developing the web application with the help of Django
* Involved in designing and developing interactive User Interfaces, usability, web and client/server applications using HTML5, CSS3, Bootstrap, JavaScript and JQuery.
* Developed Python web services for processing JSON and interfacing with the Data layer.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Implement machine learning algorithms on big data platforms for intelligent data processing and analysis. Develop server less functions using AWS Lambda for data processing tasks, enhancing scalability and reducing operational overhead.
* Implemented and tested many features for dashboard using Django, CSS3 and JavaScript.
* Worked on Pandas as API to put the data as time series and tabular format for manipulation and retrieval of data.
* Worked on Python and Django creating graphics, XML processing, data exchange and business logic implementation.
* framework.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Worked on numerous Django views (class based) and templates for page rendering.
* Developed different REST APIs and Django framework with using Python scripting.
* Involved in Restful web services to call for POST, PUT, and DELETE and GET methods.
* Worked on Django evolution and manual SQL modifications were able to modify Django models while retaining all data, while site was in production mode.
* Followed Agile Methodologies (Scrum) involved in daily stand-up meetings.
* Maintained and updated the application in accordance to the clientele's requirement

**Environment:** Python, Django, Pandas, Matplotlib, PostgreSQL, MVC, HTML5, CSS3, JavaScript, Bootstrap, XML, AJAX, JQuery, JSON, RESTful, SQL, Agile, Oracle, Windows.

**Client:** **Publix, VA** **Nov 2016 – Dec 2019**

**Role: Software Developer**

**Description:**

Experienced Java Programmer skilled in creating custom mechanisms with CSS, HTML, and JavaScript. Proficient in UNIX shell scripting, SQL, PL/SQL, and using SVN for version control. Developed automatic build scripts with ANT and worked with XML, XSLT, Struts, servlets, JSPs, and JUnit for testing**.**

**Responsibilities:**

* As a Java Programmer, worked on creating custom mechanism by using CSS, HTML and JavaScript and used Controls and Repeaters for data sets.
* Qualified in UNIX shell scripting as part of the implementation process.
* Was part of writing SQL queries, PL/SQL stored procedures, involved in modifications to the existing database structure.
* Expertise SVN as the version control tool for the Code to commit and fetch.
* Actively worked on developing the automatic build scripts by using ANT for application to organize and test in Servers.
* Worked using XML documents with XSLT and CSS to interpret the content into HTML also validated XML using DTD's and XSD's.
* Experience in analyzing business needs as a part of releases as a Developer in Java,
* Was responsible for designing object model diagrams and data model diagrams to meet the business necessities.
* Worked using Struts validators and 1.x tiles concept for front end execution.
* Worked on the presentation layer of the application with the help of servlets and JSPs. Engrossed in writing JUnit 3 Test Cases for unit testing various modules of application.
* Proficiency in using Eclipse Galileo IDE for application progress.

**Environment:** Java1.6, Struts 1.x, J2EE, HTML, JavaScript, Servlets, JSP, JDBC, Eclipse, XML, XSLT, XSD, EJB, Ant, JUnit, Tomcat, Windows XP, UNIX, Oracle10g, CSS style sheets.

**Client:** **GET IT Pvt Ltd, India** **July 2015 – June 2016**

**Role: Python Developer**

**Description:**

Skilled Python Developer with extensive experience in Django framework for developing web applications. Proficient in using Django MVC architecture, creating forms, handling migrations, and caching. Experienced in using Python for data analysis, developing automation scripts, and working with AWS services. Adept at front-end development with HTML5, CSS3, JavaScript, and jQuery. Familiar with Agile methodologies, test-driven development, and using JIRA for issue tracking. Strong background in SQL and PL/SQL.

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Developed web applications in Django Framework's model view control (MVC) architecture.
* Developed server-side application and server-side validations using Django framework.
* Worked on Python and Pandas library, built data analysis graph for documentation and record.
* Developed website based on Django CMS.
* Worked on Python IDE PyCharm for developing the code and performing unit test.
* Developed few Python programs to extract data and file from partner locations which are used by our daily processes.
* Extensively used Python / Django Framework for developing backend of web applications.
* Created Django Models and involved in Django migrations.
* Worked with caching using Django Caching Framework to improve application performance.
* Created Django Forms for database models and implemented Django views to display form details
* Implemented business logic using Python/Django.
* Worked on Python and Django to interface with the JQuery UI and manage the storage and deletion of content.
* Create Python3.6 wrappers for automation using AWS cloud S3 buckets and EMR cluster
* Worked on migrating the old java stack to Type safe stack using python for backend programming
* Implemented code in Python to retrieve and manipulate data.
* Created test harness to enable comprehensive testing utilizing Python.
* Developed the front-end featuring rich web interface using HTML5, CSS3, and Java Script and used JQuery framework for UI centric AJAX behavior.
* Worked on JQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Responsible for setting up Python REST API framework using Django.
* Wrote Python OO Design code for manufacturing quality, monitoring, logging, and debugging code optimization.
* Worked in Python on a SQL database.
* Extracted and loaded data using Python scripts and PL/SQL packages.
* Involved in agile (Iterations and standup meetings etc. thus used practices of test-driven development, SCRUM, continuous integration, refactoring and code standards.
* Worked on JIRA for bug tracking and issue tracking and added several options to the application to choose particular algorithm for data and address generation.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Actively handled multiple priority tasks in parallel and participated in review of project deliverables.

**Environment:** Python, Django, Pandas, Matplotlib, HTML5, CSS3, JavaScript, MVC, AJAX, JQuery, JSON, REST, SQL, Oracle, Windows.