

# Tarakeshar Paudel



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Backend, Mobile, and Web developer with 9+ years of work experience in different technology stacks like python, java, and angular. Highly familiar with server-side, servers, databases, and DevOps. Having a keen interest in problem-solving, challenging, and exploration.

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## PROFESSIONAL SUMMARY:

### Java Knowledge

- Results-driven Java developer with expertise in J2EE, Spring Boot, and Hibernate. Skilled in designing and implementing robust and scalable applications using these technologies.
- Experienced in utilizing IntelliJ IDEA and Eclipse as a powerful IDE for Java development, proficient in leveraging its advanced features and plugins to enhance productivity and code quality.
- Seasoned software engineer with extensive knowledge of PostgreSQL, MySQL, PL/SQL and Oracle databases. Proficient in designing efficient database schemas and writing optimized SQL queries for Java applications.
- Skilled in message queuing technologies such as RabbitMQ and ActiveMQ, adept at implementing reliable and efficient messaging systems for seamless communication in Java applications.
- Java professional with expertise in Gradle and Maven for efficient dependency management and build automation. Proficient in managing project dependencies and ensuring smooth development workflows.
- Docker expert with a focus on containerization and deployment of Java applications. Skilled in creating Docker images and managing containerized environments for streamlined deployment.
- Experienced in designing and implementing microservices architectures using Spring Boot and Docker. Proficient in building scalable and resilient microservices-based applications.
- Skilled in API gateway implementation, enabling secure and efficient communication between clients and microservices. Proficient in utilizing technologies like Spring Cloud Gateway and Netflix Zuul.
- Expert in service discovery mechanisms such as Eureka, enabling dynamic registration and discovery of services in distributed systems.
- Knowledgeable in load balancing techniques and technologies to distribute traffic across microservice instances for enhanced performance and fault tolerance.
- Java developer with a strong understanding of RESTful API design and development. Proficient in implementing REST APIs using frameworks like Spring Boot and ensuring adherence to best practices.
- Skilled in object-oriented programming (OOP) and SOLID principles, applying them to create modular and maintainable Java applications.
- Proficient in Secure Shell (SSH) protocol and its implementation for secure communication in Java applications.
- Expert in managing dependencies in Java projects using Gradle and Maven. Skilled in resolving conflicts and ensuring smooth integration of external libraries.

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- Experienced in packaging Java applications as JAR or WAR files for deployment on Apache Tomcat or other application servers.
- Skilled in utilizing Eclipse as an IDE for Java development, proficient in leveraging its features and plugins for efficient coding and testing.
- Java developer experienced in writing and executing JUnit tests for thorough unit testing of Java code.
- Proficient in integration testing to validate the interaction and compatibility of different components and services in a Java application.
- Skilled in system testing to verify the functionality, performance, and reliability of Java applications using testing frameworks like Selenium and JUnit.
- Experienced in manual testing using tools like Postman to ensure the quality and proper functioning of Java applications.
- Knowledgeable in Apache Kafka for building distributed streaming platforms, proficient in leveraging Kafka for real-time data processing and event-driven architectures.
- Skilled in utilizing Liquibase migration tools for managing database schema changes and versioning in Springboot applications.
- Experienced in using DataGrip as a database IDE for efficient database management and development.
- Proficient in utilizing Sonar for code quality analysis and ensuring adherence to coding standards and best practices.
- Skilled in using JaCoCo for code coverage analysis, enabling thorough testing and identifying untested code in Java applications.
- Experienced in developing applications using Angular 12 for frontend development and integrating with Java backend services.
- Knowledgeable in utilizing Splunk for log analysis and monitoring in Java applications, enabling efficient troubleshooting and performance optimization.
- Skilled in deploying and managing applications on EC2 instances in AWS, proficient in leveraging EC2 for scalable and reliable hosting of Java applications.
- Experienced in utilizing AWS Lambda for serverless computing, enabling the execution of Java code
- Detail-oriented Java developer with a strong focus on Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies.
- Skilled in writing comprehensive unit tests and automated acceptance tests using frameworks like JUnit, Cucumber, and JBehave. Proficient in utilizing these practices to ensure high-quality, reliable code that meets business requirements.

## Python Knowledge

- Over all 9+ years of experience as a Python Developer, proficient coder in multiple languages and environments including Python, REST API, AWS, C, C++, and SQL.
- Experienced with full software development life cycle (SDLC), architecting scalable platforms, object-oriented programming (OOPs), database design and agile methodologies.
- Excellent understanding of Agile and Scrum development methodology.
- Experienced in Python to manipulate data for data loading and extraction and worked with python

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libraries like Matplotlib, NumPy and Pandas for data analysis.

- Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT) and user acceptance testing (UAT)
- Experienced in working with various Python IDE's using PyCharm, PyScripter, Spyder, PyStudio and PyDev.
- Good experience of software development in Python and IDEs: PyCharm, sublime text, Jupiter Notebook.
- Worked on Anaconda Python Environment.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- Experience in implementing python alongside using various libraries such as mat plotlib for charts and graphs, MySQL db. for database connectivity, python-twitter, PySide, Pickle, Panda's data frame, network, urllib2.
- Experienced in using python libraries like Beautiful Soup, NumPy, SciPy, matplotlib, Python-twitter, NetworkX, urllib2, MySQL for database connectivity and IDEs - Sublime Text, Spyder, PyCharm.
- Experienced in Requirement gathering, Use Case development, Business Process flow, Business Process Modeling.
- Exceptionally solid background in composing API's along with Web Services over Python.
- Experience in using Adobe Flash, SVN, Eclipse, JIRA, GitHub.
- Experience working knowledge in UNIX and Linux shell environments using command line utilities.
- Expertise in AWS Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups.
- Experienced in developing Web Services with Python programming language and good knowledge of Web Services with protocols SOAP, REST.
- Experience with JSON based REST Web services and Confidential Web services (AWS) and Responsible for setting up Python REST API framework using Django.
- Experience in building frameworks and automating complex workflows using Python for Test Automation.
- Hands on experience in using NOSQL libraries like MongoDB, Cassandra, Redis and relational databases like Oracle, SQLite, PostgreSQL and MYSQL databases.
- Worked on UNIX shell scripts for business process and loading data from different interfaces to HDFS.
- Good Knowledge in Amazon AWS concepts like EMR and EC2 web services which provides fast and efficient processing of Big Data.
- Proficient in Object oriented design experience, with extensive experience of Python-C/C++ binding using Boost Python and Python C types.
- Experiences with File Handling and SSH (Secure Shell).
- Working knowledge of errors and exceptions handling debugging using PDB, Eclipse and PyCharm.
- Experience with Docker, deployment of application inside software containers.
- Excellent Debugging, Problem Solving, Optimization and Testing Skills using GitLab.
- Experience in Python Development and Scientific Programing and using NumPy and Pandas in Python for Data Manipulation.
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- Experience with SQL Server Management Studio, SQL Developer, Toad and MySQL GUI Tool.

## **TECHNICAL SKILLS:**

**Operating Systems:** Windows, MAC OS, Unix/Linux

**Languages:** Python, C++, Java, J2EE

**Python Libraries:** NumPy, Matplotlib, NLTK, Stats models, Scikit-learn/sklearn, SOAP, SciPy

**Python Frameworks:** Pandas, Flask, Django, Docker

**Python IDE:** Sublime Text 3, Eclipse, Jupiter Notebook, VIM, PyCharm

**Databases:** RDBMS (Oracle, SQL Server, MySQL), No SQL (Mongo DB), HDFS (Hadoop)

**Web Technologies:** JavaScript, jQuery, AWS, Restful Web Services

**Other Tools:** Putty, SQL developer, Toad, JIRA, MATLAB, R

## **PROFESSIONAL EXPERIENCE:**

**CLIENT:** Common Wealth Financial Network NY

**Sep 2021 - Till the date**

**ROLE: SR PYTHON DEVELOPER**

## **ROLES & RESPONSIBILITIES:**

- Participated in requirement gathering and analysis phase in documenting the business requirements by conducting meetings with various business users.
- Implemented Model View Control (MVC) architecture using server-side applications like Django for developing web applications.
- Developed Python based API (RESTful Web Services) to track the events and perform analysis using Django.
- Built various graphs for business decision making using Python matplotlib library.
- Used NumPy for Numerical analysis.
- Worked with Python ORM Libraries including Django ORM and have good knowledge on Project management tools. Used Apache to deploy production site.
- Worked on Python Open stack API's used Python scripts to update content in the database and manipulate files.
- Used Python based GUI components for the front-end functionality such as selection criteria and developed a GUI for a Java script.
- Developed data warehouse model in snowflake for over 100 datasets using whereScape.
- Created data sharing between two snowflake accounts.
- Written bash and python scripts integration Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMI's are scheduling lambda functions for routine AWS tasks.
- Used the AWS - CLI to suspend on AWS Lambda function used AWS CLI to automate backup of ephemeral data stories to s3 buckets EBS.
- Used Python and Django to interface with the JQuery UI and manage the storage and deletion of content.
- Created Data tables utilizing PyQt to display User information and add, delete, update User records.
- Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.

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- Used Pandas library for statistical Analysis. Worked on Python Open stack API's.
- Application development for data processing, data validations and business transformations leveraging Hive Context using PySpark.
- Contributed to the design and creation of RESTful APIs using Python/Django/Django Rest Framework.
- Developed web application using the Python and Django REST framework and deploy the API.
- Developed Business Logic using Python on Django Web Framework.
- Used Django Database APIs to access database objects.
- Worked with Python ORM Libraries including Django ORM and have good knowledge on Project management tools. Used Apache to deploy production site.
- Wrote and executed various MYSQL database queries from Python using Python-MYSQL connector and MySQL db package.
- Worked in an agile development environment.
- Participated in Business meetings to understand the business needs & requirements.

**ENVIRONMENT:** Python, Django, ECS Fargate, PySpark, MVC, Snowflake, Lambda, Matplotlib, Numpy, urllib, Pandas, AJAX, JQuery, SOAP, RESTful, HTML5, XHTML, CSS3, JavaScript, Bootstrap, Angular.JS, XML, My-SQL, Agile and Windows

**CLIENT:** All State, Northfield Township, IL

**Aug 2019 - July 2021**

**ROLE:** PYTHON DEVELOPER

## **ROLES & RESPONSIBILITIES:**

- Translated the customer requirements into design specifications and ensured that the requirements translate into software solution.
- Created Business Logic using Python to create Planning and Tracking functions.
- Worked on Multi-Tier distributed Enterprise applications and data processing automation using Python.
- Performed testing using Django's Test Module.
- Designed and managed API system deployment using fast http server and Amazon AWS architecture.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- Developed user interface solutions using a Django web framework.
- Worked on Python Open stack API's.
- Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
- Worked on Python Scientific packages like NumPy and Pandas to handle data sets.
- Developed Business Logic using Python on Django Web Framework.
- Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
- Collected, studied, interpreted large datasets, and visualized it using PySpark.
- Carried out various mathematical operations for calculation purpose using Python libraries.
- Worked with JSON based REST Web services.

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- Creating unit test/regression test framework for working/new code.
- Using Subversion version control tool to coordinate team-development.
- Developed SQL Queries, Stored Procedures, and Triggers Using Oracle, SQL, and PL/SQL.
- Used GitHub for version control.
- Created PyUnit test cases for unit testing.
- Utilized Agile process and JIRA issue management to track sprint cycles.
- Managed large datasets using Panda data frames and MySQL.
- Supported user groups by handling target-related software issues/service requests, identifying/fixing bugs.

**ENVIRONMENT:** Python, Django, PySpark, Pandas, NumPy, AWS, XML, JSON, REST, PyUnit, GitHub, Jira, Subversion, SQL, MYSQL, Oracle, Agile and Windows.

## **Pick And Drop Nepal Pvt. Ltd.(Tech Lead)**

A full-time senior software developer from April 18, 2018 – March 15, 2019

- Working as a tech lead and system workflow for the company's system and also the architecture of the whole system.
- Working as a mobile application, backend developer, and tech head.
- Managing servers, databases, and CI pipelines for deploying the changes in the server.

## **Web Creation Nepal Pvt. Ltd.**

Part-Time Software Developer from Oct 1, 2016 – April 17, 2017

- Worked as a Freelancer to develop an android application and generate RESTful API for mobile applications.

## **Megabyte Pvt. Ltd.**

Part-Time Software Engineer from May 1, 2014 – Jan 1, 2015

- Worked as a Freelancer to develop mobile applications and RESTful APIs.

## **Sarathi Pvt. Ltd.**

Full-Time Software Engineer from March 5, 2013 – Feb 5, 2014

- Worked as a Software developer on the project "Sarathi Driver App" and "Sarathi" mobile application.

## **Texas Imaginology Pvt. Ltd.**

Learned android and Java in the real field from Jan 2012 – November 2012

- Worked as an android app developer to develop an android app for the college information system "TICMS".

## **EDUCATION**

- Bachelor of Science in Computer Science and Information Technology, Nepal Tribhuvan

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University Affiliation

## TRAINING

- Participated in a 2-week android workshop organized by Texas International College.
- Attended 3 months of Java professional training provided by Texas International College.
- Participated in 2 months of React training at Texas International College.
- Participated in a 2-week Cisco Networking workshop at Texas International College.

