P Aditya
Python Full Stack Developer
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Professional Summary

- Highly skilled and seasoned IT professional with over 9 years of extensive experience in developing and managing frontend and backend modules using Python on Django Web Framework.
- Proficient in implementing a wide array of Python libraries including NumPy, SciPy, PyTables, Matplotlib, Pandas data frame, and urllib2 to enhance data processing capabilities.
- Adept in all System Development Life Cycle Analysis (SDLC) phases, including requirements gathering, system analysis, design, development, testing, and deployment.
- Collaborative team player with a strong ability to work closely with designers, integrating Flash into CMS and creating XML with Django for Flash usage.
- Expertise in implementing REST services using Golang with Microservices architecture, Docker, and Kubernetes.
- Skilled in migrating data between Elasticsearch clusters using tools like Logstash and Kafka for various environments.
- Proficient in working with the Spark ecosystem, utilizing SCALA and HIVE Queries for data analytics and processing in different formats like Text files and Parquet.
- Experienced in Apache Spark for advanced procedures such as text analytics and processing, leveraging in-memory computing capabilities written in Scala.
- Developed trait handlers (services) for devices, facilitating interactions and state updates using gRPC.
- Strong background in data analysis, data profiling, and automation using complex SQL on various source systems including Oracle and Teradata.
- Experienced in test automation using Selenium WebDriver, Unittest, Pytest, and Robot frameworks, enhancing software quality and efficiency.
- Proficient in cloud technologies, especially Amazon Web Services (AWS), managing infrastructure using tools like Terraform and automating deployments with CI/CD tools like Jenkins and Ansible.
- Skilled in designing and managing API systems deployed on fast HTTP servers and Amazon AWS architecture.
- Experienced in backend programming using PL/SQL, stored procedures, functions, packages, and database triggers for Oracle.
- Expertise in implementing and optimizing PySpark jobs on Kubernetes Cluster for efficient data processing.
- Strong background in working with various Python data science and machine learning libraries like Pandas, Numpy, Seaborn, Scikit Learn, and Matplotlib.
- Skilled in integrating multiple APIs and features using React + GraphQL stack, enhancing application functionality.
- Proficient in containerization technologies like Docker and orchestration tools like Kubernetes, ensuring efficient deployment and scaling of Microservices.
- Strong analytical and problem-solving skills, with the ability to handle complex data processing tasks using Python and related technologies.
- Excellent collaboration and communication skills, working effectively in cross-functional teams and managing cloud-based solutions in AWS environments.
- Demonstrated ability to handle diverse responsibilities, including DevOps roles, software development, API integration, and database management, ensuring comprehensive IT solutions for clients and organizations.

- Proven track record of implementing innovative solutions and technologies, driving process improvements, and delivering high-quality software products and services.
- Detail-oriented and results-driven professional committed to delivering superior performance in challenging and dynamic environments.

Technical Skills

Programming Languages	Python (Django, Flask), Golang, Scala
Python Libraries	NumPy, SciPy, PyTables, Matplotlib, Pandas
Web Technologies	HTML, CSS, JavaScript, React, Vue.js
Database Technologies	Oracle, Teradata, MySQL, PostgreSQL, MongoDB
Big Data & Analytics	Apache Spark, PySpark, HIVE Queries
Automation & Testing	Selenium WebDriver, Unittest, Pytest, Robot
Containerization & Orchestration	Docker, Kubernetes
API Technologies	REST, GraphQL
Cloud Platforms	Amazon Web Services (AWS)
Data Analysis	SQL, Pandas DataFrames
Version Control	Git, SVN, CVS
Other Tools & Technologies	Elasticsearch, Logstash, Kafka, Redis, Memcache, Terraform, Jenkins, Ansible, AWS Lambda
Operating Systems	Linux (Ubuntu, CentOS), Windows
Other	Microservices Architecture, CI/CD, PL/SQL

Professional experience

Role: Python Full Stack Developer
Client: Chatter Communications, CO   Sep 2021 – Present
Responsibilities:
- Developed entire frontend and backend modules using Python on Django Web Framework.
- Implemented different Python libraries NumPy, SciPy, PyTables, Matplotlib, Pandas data frame, and urllib2
- Participated in all System Development Life Cycle Analysis (SDLC) phases and was responsible for gathering requirements, system analysis, design, development, testing, and deployment.
- Worked very closely with the designer, tightly integrating Flash into the CMS with the use of Flashovers stored in the Django models. Also created XML with Django to be used by the Flash.
- Implemented REST services by Golang with Microservices architecture Docker and Kubernetes.
- Migrate Data from Elasticsearch-1.4.3 Cluster to Elasticsearch-5.6.4 using Logstash, Kafka for all environments.
- Experienced in Apache Spark for implementing advanced procedures like text analytics and processing using the in-memory computing capabilities written in Scala.
- Developed trait handlers (services) for the devices to interact and update their different states using gRPC.
- Running analytics on user data using Pyspark API with Jupyter notebooks in on premise cluster for certain transforming needs.
- Performed data analysis and data profiling using complex SQL on various source systems including Oracle and Teradata.
- Configured Selenium WebDriver, Unittest, Pytest, Robot, pip tool and created selenium automation scripts in Python.

- Automated Smoke and functional test cases using Selenium WebDriver, Unitest/Pytest Python (PyCharm IDE).
- Deployed project into Amazon web services (AWS Kinesis, EC2) using Amazon Elastic Beanstalk
- Worked on Amazon Web Services (AWS Kinesis, EC2) infrastructure with automation and configuration management tools such as Chef and Puppet.
- Proficient in AWS Kinesis, EC2 services like VPC, EC2, S3, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail, Lambda, and Step functions. Managed AWS infrastructure as code using Terraform.
- Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
- Used Python-based GUI parts for the front-end usefulness, for example, determination criteria, made test saddle to empower exhaustive testing using Python.
- Wrote, tested, and implemented Teradata Fastload, Multiload, and Bteq scripts, DML and DDL.
- Designed and managed API system deployment using a fast HTTP server and Amazon AWS architecture.
- Developed tools using Python, Shell scripting, and XML to automate some of the menial tasks.
- Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
- Experience in using Vue JS to create a simple API to loop through an array of bound data and also done two-way binding of data using Vue JS.
- Architected and designed the data flow for the collapse of 4 legacy data warehouses into an AWS Data Lake.
- Backend experience, with data-processing using NoSQL: Redis, MongoDB. Has working knowledge of Redis Cache, Memcache, and Rabbit MQ.
- Worked with modules like MongoDB and Mongoose for database persistence using Node.js to interact with MongoDB.
- Design and Develop ETL Processes in AWS Glue to migrate Campaign data from external sources like S3, ORC/Parquet/Text Files into AWS Redshift.
- Data Extraction, aggregations, and consolidation of Adobe data within AWS Glue using PySpark.
- Worked with JSON web tokens for authentication and authorization security configurations using Node.js.
- Implemented using Perl scripts, DBI module for Data integrity problems.
- Implemented a recursive algorithm to parse large GraphQL introspection queries into a dotfile format in order to visualize the one-to-many relations between schemas in an SVG format.
- Configured and managed various AWS Services including EC2, RDS, VPC, S3, Glacier, CloudWatch, SQS, and SNS etc.
- Developed Spark applications using Pyspark and Spark-SQL for data extraction, transformation, and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into customer usage patterns.
- Implementation of cloud services IaaS, PaaS, and SaaS which include OpenStack, Docker, and OpenShift.
- Have knowledge of the partition of Kafka messages and setting up the replication factors in Kafka Cluster.
- Configuring, automation, and maintaining build and deployment CI/CD tools GIT/GITLab, JENKINS, Build Forge, Docker registry/daemon, Nexus, and JIRA for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform. Orchestrating CI/CD processes. CI/CD tools Dockerized and infrastructure setup in Vagrant, AWS, and VPCs.
- Installed and configured the GitLab runners to deploy the .NET components onto the IIS servers. Worked on the GIT branching strategy to deploy the components onto different environments.
- Worked on integrating AWS DynamoDB using AWS Lambda to store the values of the items and backup the DynamoDB streams.

- Worked on Big Data Integration and analytics based on Hadoop, Spark, Kafka, and web Methods.
- Created Pyspark frame to bring data from on-prem DB to Amazon S3.
- Provided guidance to the development team working on PySpark as an ETL platform.
- Optimized the Pyspark jobs to run on Kubernetes Cluster for faster data processing.

Environment: Python 3.4/2.7, Django 1.7, CherryPy, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, RESTful, web service, MongoDB, MySQL, SQLite, Airflow, PySpark, Cassandra, Scikit-learn, Docker, AWS (EC2, S3), PyUnit, Karma, Jenkins, Bitbucket, Selenium Automation Testing.

Role: Python Full Stack Developer
Client: Express Scripts, NJ   **April 2019 – Aug 2021**
Responsibilities:
- Implemented different Python libraries NumPy, SciPy, PyTables, Matplotlib, Pandas data frame, and urllib2 in various tasks.
- Responsible for analyzing various cross-functional, multi-platform applications systems enforcing Python best practices, and providing guidance in making long-term architectural design decisions.
- Coded model-level validation using Python programming with emphasis on web security. Handled Business logic by backend Python programming to achieve optimal results.
- Manages, maintains, researches, designs, and coordinates the GIS technology and mapping system and shape files.
- Wrote Perl scripts to automate the verification of the information inserted in the database via the web application
- Worked on Backend Programming using PL/SQL, Stored Procedures, Functions, Packages, Database triggers for Oracle
- Involved in converting Hive/SQL queries into Spark transformations using Spark RDD, Scala, and Python.
- Implemented AWS Kinesis, EC2, S3, and EFS for improved efficiency of static storage and file-sharing system
- Worked closely with the DevOps team to set up a CI/CD pipeline using Jenkins, Ansible, AWS, Maven, and GIT.
- Designed and managed API system deployment using a fast HTTP server and Amazon AWS architecture.
- Used several Python libraries such as Python, NumPy, and Matplotlib for representation or plotting of Network Analysis.
- Used the AWS -CLI to suspend on Aws Lambda function and used AWS CLI to automate the backup of ephemeral data stores to S3 buckets EBS.
- Developed server-side software modules and client-side user interface components deployed entirely in the Compute Cloud of Amazon Web Services (AWS).
- Worked on object-oriented programming (OOP) concepts using Python, Django, and Linux.
- Worked on AWS services running in an environment for sensitive workloads and storing sensitive data.
- Develop ETL Process using SPARK, SCALA, HIVE and HBASE.
- Created high-performance custom Redis.io adapters for node for NoSql persistence.
- Organizes and assists in the coordination, transfer, sharing, and maintenance of the GIS system.
- Developed dynamic responsive Web Application by integrating Angular2 with Bootstrap which is further integrated with Web Services and Vue.js.
- Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash, and Terraform.

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- Strong experience in writing Perl scripts covering data feed handling, implementing business logic, and communicating with web services through the SOAPLite module and WSDL.
- Worked with teams to dockerize their Microservices and get them into the build/deploy pipeline.
- Set up the CloudWatch monitoring dashboards with SNS notification configurations on various performance metrics retrieved from various AWS Resources.
- Created and maintained a NoSQL database (**DynamoDB**) for scaling efficiently in the cloud.
- Experienced using many Python Data Science and Machine Learning libraries such as Pandas, Numpys, Seaborn, Scikit Learn, and Matplotlib.
- Experience in integration of various data source definitions like SQL Server, Oracle, Teradata SQL Assistant, MYSQL, Flat Files, XML, and XSDs.
- Experience with Teradata tools and utilities (BTEQ, Fast load, Multi Load, Fast Export, and TPUMP).
- Independently integrate multiple APIs and new features using **React + GraphQL** stack.
- Closely worked with the Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
- Had knowledge of Kibana and Elastic search to identify the Kafka message failure scenarios.
- Worked on developing APIs using Kubernetes to manage and specify the copies of the containers to run the actual servers in the cloud environment.
- Developed spark applications in Python (PySpark) on a distributed environment to load a huge number of CSV files with different schema into Hive ORC tables.
- Building ETL jobs using Pyspark API with Jupyter notebooks in the on premise cluster for certain transforming needs and HDFS as a data storage system.
- Used node.js as a proxy to interact with RESTful services and interacting with PostgreSQL Database.
- Worked on reading and writing multiple data formats like JSON, ORC, and Parquet on HDFS using PySpark.
- Developed views and templates in Django to create a user-friendly website interface.
- Constructed RESTful APIs using PHP and MySQL/PostgreSQL. Configured Django to manage URLs and application parameters.
- Extensively used Python / Django Framework for developing the backend of web applications.
- Installed and configured Apache airflow for workflow management and created workflows in Python.
- Expertise in working with AWS provided Solutions like EC2 and ELB which includes Creating EC2 instances, adding EBS volumes for EC2, and familiar with VPC, Route 53, RDS, S3, IAM, SNS, SES, Auto scaling, Elastic Beanstalk, Cloud formation and Cloud Watch.
- Designed and tested UNIX shell scripts as part of the ETL testing process to automate the process of loading, and pulling the data for testing ETL loads.
- Designed and maintained databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQLAlchemy, and PostgreSQL.

Environment: Python 2.7/3.0, Django, XML, Hadoop, pig, hive, PySpark, AWS, AWS EC2, AWS REST API gateway, AWS RDS, ETL, HDFS, HBase, MongoDB, Agile, SCRUM, PyUnit, Apache, CSS, MySQL, DHTML, HTML, Scikit-learn, JavaScript, AngularJS, Shell Scripts, Git, Bitbucket, Linux, Unix and Windows.

Role: Sr. Python developer
Client: Hines, TX   **Dec 2016 – Mar 2019**
Responsibilities:
- Responsible for creating efficient design and development of responsive UI using HTML5, CSS3, JavaScript, MEAN stack (MongoDB, Angular, and Node JS), and React JS.
- Responsible for developing Business Logic using Python on the Django Web Framework.
- Responsible for creating the company's internal platform called DCAE by using Python to develop and test the components.

- Responsibilities included DevOps roles, of maintaining multiple development environments built on Kubernetes clusters
- Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
- Deploy docker-based applications written in Python/Flask to AWS ECS, a container orchestration service.
- Developed some of the backend services using Python FastAPI by making use of asynchronous (using coroutines async/await) functionality.
- Deployed and managed container replicas onto a node cluster using Kubernetes.
- Deployed microservice applications in Python, with Flask, SQLAlchemy, and Docker. Deployed for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
- Developed Merge jobs in Python to extract and load data into MySQL database and Docker.
- Worked in CICD environments using Docker, and Jenkins and hands-on experience using various Version Control Systems, mostly GIT, CVS, and SVN.
- Developed a web application for time entry that integrated with Connect Wise's REST API using Python, Postgres, and Flask.
- Created Web apps using the Django framework to implement drag/drop upload of files (using JS, CSS, and HTML)
- Deployed Strong expertise in API development using Rest, GraphQL, Web Socket, and Messaging platforms.
- Developed a performance and process enhancement of the PySpark framework.
- Developed PL/SQL store procedures for data migration and database upgrade from Oracle using MYSQL.
- Developed DAO API to manage the payment information using Hadoop, Big Data, Cassandra, NoSQL, MongoDB MySQL, and JDBC.
- Developed in JavaScript leading Frameworks Teams like Angular.js, React.js, backbone.js, bootstrap.js, Node.Js, and Projects UI Designing Team.
- Deploy docker-based applications written in Python/Flask to AWS ECS, a container orchestration service.
- Extracting acting data from the database using SAS/Access, SAS SQL procedures, and creating SAS data sets.
- Developing a Good knowledge of different databases like SQL Server, MySQL, and SQLite.
- Created a Python to extract and load data into MySQL database and Docker.
- Worked with AWS Lambda functions to create automatic loading data into S3 buckets and transfer them to DynamoDB.
- Development team in assessing in-house apps for migration to AWS cloud-based solutions.
- Developed automated testing framework for command-line-based tests on Linux using Objected Oriented Perl and for selenium-based tests using Python.
- Developed requests and supported existing container security infrastructure (Docker, Kubernetes, Registry scanning, and CICD).
- Developed RESTful APIs for various client service applications, providing CRUD operations
- Perform data transformations with Apache Spark (PySpark) on Databricks to write to AWS S3.
- Working extensively on REST APIs, JSON, Microservices, CI/CD, and Docker containers.
- Implemented a serverless architecture using AWS Amplify, Dynamo DB, Cognito, Lambda, and API Gateway.

Environment: Python 3.7.0/2.7, Django 2.0/1.6, HTML5, CSS, XML, Java, FastAPI, Tailwind, tableau, JS, jQuery, Apache, CSS Bootstrap, Mongo DB, MS SQL Server, React, T-SQL, GitHub, AWS, ETL, PySpark, flask, angular, Golang.

Role: Python Developer
Client: Yodha IT Solutions, India   Jun 2014 – Aug 2016
Responsibilities:

- Responsible for container-based deployments using Docker, working with Docker images, Docker Hub and Docker registries, and Kubernetes.
- Responsible for charts using Pandas and Matplotlib.
- Written many programs to parse Excel files and process many user data with data validations.
- Used Thales theorem for applying encryption and decryption of ISO standard messages in Python programming.
- Developed dynamic web pages using Python Django frameworks and Used Django APIs for database access.
- Utilized PyUnit, the Python unit test framework, for all Python applications.
- Used jQuery and Ajax calls for transmitting JSON data objects between front end and controllers.
- Developed entire frontend and backend modules using Python on Django Web Framework.
- Designed and implemented an application for managing customers, purchases, and invoices.
- Created RESTful HTTP services to interact with UI.
- Utilized Python in the handling of all hits on Django, Redis, and other applications.
- Developed object-oriented programming to enhance company product management.
- Worked with extract-transform-load (ETL) processing tool for data mining, data warehousing, and data cleaning using SQL Performed Cross Validation on a single holdout set to evaluate Used Python scripts.
- Used Thales theorem for applying encryption and decryption of ISO standard messages in Python programming.
- Created UI using Java and HTML5. Designed and developed a data management system using MySQL.
- Developed object-oriented programming to enhance company product management.

Environment: ETL, ECS, NumPy SciPy, Pandas, AWS, Bugzilla, SVN, MS SQL, Linux, Apache, Eclipse, Java t XML, PL/SQL, Oracle 9i, Shell Scripting, HTML5/CSS, Apache, Dataiku, Golang.

Aditya Pradeep

- Rockville, MD, US

Contact Information

- 55m-mdn-84d@mail.dice.com

Skills

- **api** - 9 years
- **database** - 9 years
- **django** - 9 years
- **etl** - 9 years
- **json** - 9 years
- **mysql** - 9 years
- **python** - 9 years
- **restful** - 9 years
- **software** - 9 years
- **ui** - 9 years
- **amazon dynamodb** - 7 years
- **amazon s3** - 7 years
- **amazon web services** - 7 years
- **css** - 7 years
- **git** - 7 years
- **javascript** - 7 years
- **mongodb** - 7 years
- **node.js** - 7 years
- **nosql** - 7 years
- **redis** - 7 years

Work Preferences

- Desired Work Settings: Remote or On-Site or Hybrid
- Likely to Switch: False
- Willing to Relocate: False
- Work Authorization:
  - US
- Work Documents:

- o Green Card Holder
- Security Clearance: False
- Third Party: False
- Employment Type:
  - o Full-time

Profile Sources

- Dice: https://www.dice.com/employer/talent/profile/29bd061c4373bbd02fee5d3a6ebe023e