**SIVAJI MARRIPUDI**



**Python Developer**

[**sivaji0425@gmail.com**](mailto:sivaji0425@gmail.com)

**(313)-312-4298**

## PROFESSIONAL SUMMARY

* Having 7 years of experience as a Python Developer specializing in designing, developing, and implementing robust applications using Python, Django, Flask, FastAPI, and JavaScript, with a strong focus on client-server architectures and writing Python scripts for automation.
* Experienced in developing web applications implementing **Model View Control (MVC)**

architecture using **Django**, **Flask**, **FastAPI** and Python web application frameworks.

* Experienced in database management and **ORM (Object Relational Mapper)** with Django and SQL Alchemy, ensuring efficient data handling and queries.
* Proficient in using **Pandas** for data manipulation and analysis, enabling efficient handling of large datasets, performing complex transformations, and generating insightful reports.
* Utilized **Jupyter Notebooks** for exploratory data analysis, visualization, and documentation of data-driven projects.
* Experienced in **data validation** and **serialization** in Python microservices using Pydantic, ensuring robust and type-safe data handling with automatic schema validation and error reporting.
* Experienced in front-end development, enhancing user interfaces using **HTML5**, **CSS3**, **Bootstrap**, **Javascript**, **Typescript**, **Angular**.
* Experienced in implementing **Python** scripts to parse JSON and XML data using JPath and XPath, transforming the extracted information into a structured format (e.g., Pandas DataFrame) for enhanced data analysis and reporting.
* Experienced in Web scraping using **beautifulSoup, requests, lxml** libraries in Python.
* Experienced in utilizing **Boto3** for seamless integration with AWS services, enabling automation of cloud resource management, data storage, and retrieval processes.
* Strong foundation in **Object Oriented Programming** principles, and writing extensible, reusable and maintainable code.
* Experienced in using **PySpark** for large-scale data processing and analytics, enabling efficient manipulation of big data through distributed computing and integration with **data pipelines**.
* Proficient in **PyTest** and **Unittest** libraries to ensure code quality and reliability.
* Proficient in leveraging cloud platforms such as AWS and Azure to design, deploy, and manage scalable applications, utilizing services for storage, compute, and data processing to enhance performance and reliability.
* Skilled in **DDL** and **DML** operations in **SQL, T-SQL, and PL/SQL,** with extensive experience in writing subqueries, stored procedures, views, Common Table Expressions (CTEs), and window functions to optimize complex data retrieval and manipulation tasks.
* Proficient in designing and managing **MongoDB** databases, leveraging its NoSQL capabilities to handle large-scale data, optimize queries, and ensure efficient storage and retrieval of information for **Python-based applications**.
* Leveraged **Talend** and **Azure Data Factory** for efficient data processing and **ETL**

operations in large-scale data environments.

* Experienced in implementing data masking techniques to protect sensitive information and ensure compliance with data privacy regulations.
* Proficient in applying data governance practices using Python, including data lineage tracking, data quality management, and automated data stewardship.
* Skilled in implementing **CI/CD** pipelines using Jenkins, automating build, test, and deployment processes for Python applications to ensure streamlined development workflows and rapid, reliable software delivery.
* Well Versed with issue tracking/bug tracking tool like **Jira**.
* Strong experience with **Agile methodologies**, including Scrum stories and sprints.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, T-SQL, SnowSQL

**Python Frameworks and Libraries:** Django, Flask, FastApi, PyDantic, Pandas, Requests, Beautiful Soup, Dataclasses, PyTest, Unit-test, PyMongo, SQL Alchemy, Boto3, Asyncio, Numpy, Scikit-Learn.

**Front-end Technologies:** HTML5, CSS3, BootStrap, JavaScript, TypeScript, Angular

**Cloud Services:** AWS, Microsoft Azure

**ETL Tools:** Talend, Azure Data Factory

**Databases:** MySQL, Microsoft SQL Server, MongoDB, Oracle

**Datawarehouse:** Snowflake

**SDLC/Testing Methodologies**: Agile(CI/CD), TDD

**Schedulers:** Airflow

**IDE’s:** Visul Studio Code, Jupyter Notebook

**Tools:** Git, JIRA, Confluence, Postman, Azure DevOps

**DevOps and Monitoring:** Terraform**,** Kubernetes, Jenkins, Docker

**Operating Systems:** Linux, Ubuntu, Windows

## PROJECT EXPERIENCE

**Client: EmployEz, Southfield, Michigan February 2024 - Till Date**

**Python Developer**

## Role:

**Responsibilities:**

* EmployEz is a comprehensive HRMS platform that provides a range of workforce management solutions all in one place.
* Leveraged Python libraries and frameworks to implement robust features and functionalities, ensuring high performance and reliability.
* Engineered dynamic web applications using Django, adhering to the Model-View- Template (MVT) architecture to ensure clean, maintainable code.
* Developed scalable back-end services and RESTful APIs using Django REST Framework, enabling efficient data communication between front-end and back-end.
* Designed and optimized SQL Server databases to support application requirements, ensuring efficient data storage and retrieval.
* Implemented complex SQL queries, stored procedures, and indexing strategies to enhance database performance and data integrity.
* Used Git for version control, managing code repositories, and collaborating with team members through pull requests and code reviews.
* Applied Python for automating repetitive tasks, including data validation and reporting, significantly reducing manual efforts and errors.
* Utilized Pandas for data manipulation and analysis, processing large datasets efficiently to support HRMS reporting and analytics requirements.
* Leveraged Pandas to clean, transform, and aggregate data from various sources, enabling real-time insights and decision-making for workforce management solutions.
* Implemented robust authentication and authorization mechanisms using Django REST Framework’s token and session authentication.
* Employed Agile methodologies and participated in regular sprint planning, stand-ups, and retrospectives to ensure timely and efficient project delivery.

**Environment:** Python, Django restframework, ORM, requests, Boto3, HTML5, CSS3, JavaScript, TypeScript, Angular 11, Docker, Kubernetes, Microsoft SQL Server, Git, Postman, YAML, Ansible, Pandas.

## Client: Western Union, Remote February 2021 - February 2024

**Python Developer**

**Role: Python Developer**

## Responsibilities:

* Developed automated Python scripts to validate large volumes of financial transaction data post-migration from Oracle to Snowflake.
* Implemented REST APIs using Django Rest Framework.
* Contributed to developing data pipelines using Snowpipe to migrate data from data lakes, such as AWS S3, to Snowflake.
* Developed automation scripts in Python to validate data consistency between JSON and XML, as well as JSON and CSV.
* Worked in building PySpark-based ETL pipelines for financial transaction data, optimizing data handling and scalability in distributed environments.
* Worked with Big Data technologies such as Hadoop, Hive, and Apache Kafka to support data processing and storage solutions.
* Leveraged PySpark for data transformation and migration from AWS S3 to Snowflake, enhancing data flow between cloud-based systems and data lakes.
* Designed and implemented Python-based solutions to verify data consistency and accuracy across multiple databases during ETL processes, ensuring compliance with financial industry standards.
* Utilized PySpark on AWS EMR to perform large-scale data processing and transformation tasks for financial transaction data, optimizing performance and reducing processing time by 50%.
* Created Python scripts for validating API-fetched data in JSON, Apache Kakfa and comparing it with Snowflake table data during MRT testing, reducing manual efforts by 70%.
* Enhanced API response times by integrating a Redis cache mechanism.
* Applied Test-Driven Development (TDD) practices using PyTest, ensuring code reliability and reducing bugs.
* Contributed to implementing data pipelines from Oracle, Apache Kakfa to Snowflake using Talend.
* Designed and implemented server-less architectures using AWS Lambda and API Gateway to handle and process real-time financial transaction data efficiently.
* Developed and deployed Python-based AWS Lambda functions to automate the validation and processing of large-scale financial data, ensuring accuracy and compliance with industry standards.

**Environment:** Python, HTML5, CSS3, Bootstrap, MySQL, PostgreSQL, Oracle, JavaScript, jQuery, Django, XML, JSON, AWS, Agile, CI/CD, Flask, SQL, T-SQL, Lambda functions, Hadoop, Snowflake, PySpark, Talend, Hive, Impala, Apache Kakfa.

## Client: Active Surgical Robotics, India September 2018 - January 2021

**Python Developer**

**Role:**

## Responsibilities:

* ActivSurgical is a surgical intelligence application that provides visual insights and information to surgeons in real-time.
* Designed and implemented robust back-end solutions using Django framework to manage device provisioning and data management.
* Implemented database schemas and performed data migration using Django ORM to support dynamic application requirements.
* Developed RESTful APIs using Django and Django REST Framework to facilitate communication between front-end applications and back-end services.
* Developed logging and monitoring solutions to track application and database metrics, ensuring system reliability and availability.
* Collaborated with cross-functional teams, including firmware developers, cloud architects, and QA engineers, to ensure seamless integration and deployment of IoT solutions.
* Participated in Agile development processes, including sprint planning, daily stand-ups, and retrospective meetings, to deliver high-quality software solutions.
* Involved in Scrum meetings and will be having direct demo with clients for each sprint to review the application status.

**Environment:** Python, Django restframework, Pandas, Numpy, Machine Learning, Deep Learning, Azure SQL Databases, HTML5, CSS3, JavaScript, TypeScript, Angular, Docker, Kubernetes, Azure DevOps, Azure Active Directory, Azure Key Vault, API Gateway.

## EDUCATION

**Master of Science, Applied Computer Science**

Southeast Missouri State University, Cape Girardeau, Missouri, USA

## ACHIEVEMENTS

**Certifications**: Azure Data Engineer - [**Azure DP203**](https://learn.microsoft.com/en-us/users/sivajimarripudi-4412/credentials/c9ce7a57be4a7bfb)

**Sivaji Marripudi**

* + Southfield, MI, US

# Contact Information

* + [2qc-4d1-v3y@mail.dice.com](mailto:2qc-4d1-v3y@mail.dice.com)
  + 3133124298

# Work History

**Total Work Experience: 6 years**



**Python Developer**

Feb 01, 2024

**Employez**



**Python Developer**

Feb 01, 2021

**Western Union**



**Python Developer**

Sep 01, 2018

**Active Surgical Robotics**

# Education

* + **Masters** | Southeast Missouri State University

# Skills

* + **django** - 7 years
  + **python** - 7 years
  + **backend development** - 6 years
  + **fastapi** - 6 years
  + **flask** - 6 years
  + **git** - 6 years
  + **html** - 6 years
  + **javascript** - 6 years
  + **jira** - 6 years
  + **json** - 6 years
  + **machine learning** - 6 years
  + **microsoft sql server** - 6 years
  + **mongodb** - 6 years
  + **mysql** - 6 years
  + **postman** - 6 years
  + **pyspark** - 6 years
  + **sql** - 6 years
  + **tsql** - 6 years
  + **aws** - 5 years
  + **azure** - 5 years
  + **databricks** - 5 years

# Work Preferences

* + Desired Work Settings: Remote or On-Site or Hybrid
  + Likely to Switch: True
  + Willing to Relocate: True
  + Travel Preference: 100%
  + Work Authorization:
    - US
  + Work Documents:
    - Employment Auth. Document Security Clearance: False
  + Desired Hourly Rate: 55+ (USD)
  + Third Party: False
  + Employment Type:
    - Part-time
    - Contract - Corp-to-Corp
    - Contract - W2
    - Contract to Hire - Corp-to-Corp
    - Contract to Hire - W2

# Profile Sources

* + Dice: https:/[/www.dice.com/employer/t](http://www.dice.com/employer/talent/profile/e39224fd1be31c1a82ffcf230490ed13)a[lent/profile/e39224fd1be31c1a82ffcf230490ed13](http://www.dice.com/employer/talent/profile/e39224fd1be31c1a82ffcf230490ed13)