**Gayatri Valluru**

**Python Developer**

**Email: Valluru.gayatri107@gmail.com**

**Ph #: 412-589-4543**

**Professional Summary:**

* 3 years of Experience with Software Development Life Cycle, agile methodologies, coding, testing of enterprise applications and IDE such as **PyCharm** and **Visual Studio code.**
* Developed Consumer-based custom features and app using **Python, Django, HTML, React Js and CSS.**
* Experience with Django and Flask high-level Python Web framework.
* Hands on experience with **Requests, NumPy and Panda’s** python libraries during development lifecycle.
* Developed unit test cases using **pytest** module.
* Applied MVC architecture in the development of web applications with **Django** and **Flask** framework.
* Queried Python objects into MySQL database using **SQL Alchemy**.
* Responsible for Design and maintenance of databases using python. Developed python-based APIs (Restful web services) by using **Flask** and **SQL Alchemy**.
* Proficient databases **MSSQL Server, MySQL (RDBMS), Oracle DB, Postgres sql, and SQL Alchemy.**
* Deployed python app on AWS and used their services like Dynamo and S3 for handling large data sets.
* Experience with **Jenkins** for code deployment and **CI/CD pipelines**.
* Experience with **GITHUB, Bitbucket** as source control.
* Experienced in **Agile** Methodology using **JIRA**.

**Technical Skills:**

|  |  |
| --- | --- |
| **Languages**: | C, C++, JAVA, Python |
| **Web Development**: | JavaScript, HTML, CSS, Angular, Node Js, and React. |
| **Cloud**: | AWS, Azure and GCP. |
| **ETL Tools:** | Pandas, NumPy |
| **Databases:** | Amazon Relational Database Service (RDS), PostgreSQL, MySQL, Oracle, and DynamoDB, SQL Alchemy |
| **Development Tools:** | Eclipse, Visual Studio, PyCharm, GitLab, GitHub, Jenkins and Putty. |
| **CI/CD Technologies:** | GitHub, Gitlab, Bitbucket and Jenkins. |
| **Monitoring:** | Troubleshooting and dashboarding leveraging and AWS CloudWatch. |
| **Additional Skills:** | Code Reviews, Agile, Jira, Scrum and Microsoft Office |

**Kelton Tech, Inc Dec 2023 to Present**

**Role: Python developer**

* Involved in software development life cycle (**SDLC**) of tracking the requirements, gathering, analysis, detailed design, development, System Integration testing and user acceptance testing.
* Involved consuming Python **REST API framework** using **Flask** for handling business logic.
* Developed entire frontend and backend modules using Python on **Flask Framework.**
* Developed views and templates with Python and **Flask’s** view controller and template language to create user-friendly website interface.
* Responsible for search engine optimization to improve the visibility of the website.
* As part of the team implementing rest APIS in Python using micro-framework like Flask with **SQLALCHEMY** in the backend for management of data center resources on which Open Stack would be deployed.
* Developed Merge jobs in Python to extract and load data into **MySQL** database.
* Wrote validation scripts in **SQL** to validate data loading and used **GIT** for version control.

**Commscope June 2021 to May 2023**

**Role: Python Developer**

* Automated Precision Time Protocol (PTP) features using Python, enhancing testing efficiency and accuracy.
* Integrated Python with Robot Framework to improve test coverage and streamline automation processes.
* Conducted real-time PTP traffic testing using Spirent equipment, ensuring robust performance metrics.
* Performed regression testing on ICX products for the 10.0.10 release, resolving critical issues.
* Reduced setup time by 20% and achieved 95% PTP synchronization accuracy by configuring Paragon Neo with network switches.
* Optimized integration processes, improved system reliability by 20%, and maintained comprehensive documentation.

**Education:**

* Master of Engineering, Computer science Aug 2023 - Present

University of Cincinnati, Cincinnati, OH. GPA: 3.91/4

* Bachelor of Technology, Computer Science Jun 2019 – May 2023

Koneru Lakshmaiah Education Foundation GPA: 9.27/10

**Certifications:**

* Microsoft Certified Azure Developer (**AZ-204**).
* Azure fundamentals (**AZ-900**).
* Microsoft certified DevOps Engineer Expert (**AZ-400**).
* **Aviatrix** multi-cloud Networking Associate certified.

**Projects:**

**E-Commerce Website Development |** Python, Django, HTML, CSS, JavaScript, MySQL.

Designed and developed an e-commerce website using Python and Django, automating content updates and managing database interactions with MySQL. Created Python Django forms for efficient user data collection and built a seamless user interface using HTML, CSS, JSON, and JavaScript. Configured URLs and application parameters in Django and utilized the Database API for effective database management. Integrated SOAP-based web services for data exchange in XML format and optimized the application for high performance, reliability, and user experience.

**Simplified Database management system |** C Language, Linux Jan 2024 – Apr 2024

This project focuses on creating a lightweight and minimalistic DBMS by developing three essential components critical to any comprehensive database system. It is divided into three progressive assignments (PAs), each targeting a specific database functionality: Storage Manager, Buffer Manager, and Record Manager.

GitHub Link: <https://github.com/gayatri-valluru/adv-db-mngmnt>