

Gayatri Valluru
Python Developer
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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 **SQLAlchemy**.
- Responsible for Design and maintenance of databases using python. Developed python-based APIs (Restful web services) by using **Flask** and **SQLAlchemy**.
- Proficient databases **MSSQL Server, MySQL (RDBMS), Oracle DB, Postgres sql, and SQLAlchemy**.
- 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, SQLAlchemy
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>