



Surya Teja Tadaka

Result-driven Associate Architect / Tech Lead with around 6 years of deep knowledge in Software Development Lifecycle (SDLC) and Product Lifecycle from Inception and Planning to Development, Maintenance, and Support. Expert in Python, Automation Testing, Manual Testing, API testing, Data testing and Mobile Testing



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[Professional Website](#)



Skills

Programming Languages: Python, Java, HTML, CSS, JavaScript

Automation Testing Tool: Selenium, Appium, Scrapy and BeautifulSoup.

API tool: Request, Rest-API, Postman

Testing Frameworks: Data-Driven Testing (DDT), Behavior Driven Testing (BDT), Page Object Model (POM)

Frameworks: Django, Flask, Pytest, Bootstrap

Code Quality: SonarQube, Black, flake8, isort and pre-commit hooks.

Defect Tracing tool: Jira, Testrail

Cloud Services: AWS, GCP

Containerization: Docker.

Streaming Service: Kafka, Kinesis

Monitoring Tool: Data Dog

Deployments Tools: Python-anywhere, Heroku and Netlify

CI/CD Pipelines: GitHub Actions, Jenkins

Database: SQL, PostgreSQL

Data Analysis and Visualization:

Pandas, Matplotlib, Seaborn, NumPy and Plotly

Visualization Tools: Power Bi, Tableau and Plotly Dash.

VCS: Git, GitHub, bit-bucket

ML Toolbox: Sklearn, SciPy, NLTK, NLP, OpenCV

Statistics/ML: Linear/Logistic Regression, Clustering, K-means Clustering.

Networking Technologies:

TCP/IP, HTTP, DNS, REST API

ELK Stack: Elastic Search, Kibana, Logstash, and Beats

Other: Shell Scripting, Linux, terraform, yml, Figma.

Professional Summary

Associate Architect / Tech Lead

Texas

- Accomplished **Tech Lead** with over six years of experience as a **Quality Engineer SDET**, extensively worked on **Manual, Automation, DevOps**, and testing of **Web Client Server, RESTful/SOAP API, Mobile, Web services** applications. Experienced in various domains.
- AWS Certified Solutions Architect** with deep expertise in **data architecture, real-time and batch data processing**, and scalable **automation frameworks**.
- Architect reusable, testable, and efficient code** in **Python** with knowledge of Python web and automation frameworks such as **Django, Flask, Pytest, and Selenium**.
- Proficient in designing and implementing **CI/CD pipelines**, working with **Kubernetes** and **Docker environments**, leveraging **Apache Kafka** for **data streaming**, and ensuring **cybersecurity compliance**. Follows **DevOps best practices** such as **IAC, automated testing, continuous monitoring**, and seamless **DevOps collaboration**.
- Adhered to Agile methodology**, actively participating in **sprint grooming and planning sessions** with **developers, quality analysts**, and **requirement analysts** to understand requirements and develop strategies for **Python script** and **unit test case** development.

Projects

Web Applications:

- [Covid Live Web App](#) – Real-time COVID-19 tracking dashboard.
- [Pizza Delivery Web App](#) – Interactive web application for ordering pizzas.

Automation & Task Automation:

- [Automated Job Applications](#) – Web automation for applying to jobs on LinkedIn.
- [Naukri Data Scraper](#) – Automated data extraction from Naukri.
- [NFT Creation & Selling](#) – Automated NFT generation and listing.
- [Nifty 50 Stock Data Automation](#) – Fetching and processing stock price data.

Machine Learning Projects:

- [JPX Stock Market Predictive Analysis](#) – Forecasting stock trends using ML models.
- [Image Classification](#) – Deep learning model for classifying images.

Online Portfolios & UI Design:

- [Portfolio Website \(Strikingly\)](#) – Personal portfolio built using a third-party tool.
- [Static Portfolio Website](#) – Developed with HTML, CSS, JavaScript, and Bootstrap.
- [Website UI Design \(Figma\)](#) – UI/UX design for a personal website.

Certifications:

- [AWS Certified Solution Architect-Associate](#) (Issued by [AWS](#))
- [AWS Cloud Certified Practitioner](#) (Issued by [AWS](#))
- [Information Security-IV](#) (Issued by [NPTEL](#))
- [Mobile Application Development](#) (Issued by [NPTEL](#))
- [Machine Learning and Artificial Intelligence](#) (Issued by [AppliedAI](#))

Publications:

- [Notebooks used by Machine Learning Engineers and Data Scientists](#)
- [Computer Vision with Open-CV Library using Python](#)
- [Installing WIFI Driver in Kali Linux and in other Linux Distribution](#)
- [Automated code for creating and selling NFT's and more](#)

EDUCATION:

B. Tech Vardhaman College of Engineering (CSE)

06/2016 – 05/2019

Diploma Government Polytechnic (CSE)

06/2013 – 05/2016

SSC Kakatiya High School

06/2012 – 05/2013

Work Experience

Tech Lead, **Qentelli**,

May 2023 - Present

Client: **Southwest Airlines (SWA)** Domain: **Aviation and Airline industry**

Responsibilities:

- **Architected, developed, and maintained automation frameworks** in Python using Django, Flask, Pytest, and Selenium for testing user-facing elements and server-side logic.
- Wrote **efficient, reusable, and testable Python code** for web automation, utilizing frameworks like PyCharm, unittest, Selenium, and Pytest.
- **Automated AWS cloud stack and EC2 instance creation** using Python, and managed containerized applications with Docker for cross-platform deployment.
- Validated **Open API** using Pytest methods and Postman for comprehensive API testing and integration.
- Developed **reusable Python scripts** for desktop automation utilizing auto GUI features and managing driver downloads and updates.
- Implemented and managed **CI/CD pipelines** using tools such as Jenkins, GitHub, and Jira, enabling seamless code delivery and integration.
- **Collaborated cross-functionally** with developers, quality analysts, and requirement analysts to develop Python scripts and test cases aligned with Agile methodologies.
- Led the enhancement of **test automation frameworks**, ensuring the development of high-quality, reusable, and maintainable test scripts for complex application functionalities.
- Provided technical assistance in **business user meetings** and developed Python-based tools for process improvements and productivity optimization.
- Proficient in working with **internet technologies**, ensuring seamless integration and validation during automation testing and system validation for large-scale distributed systems.
- Optimized **cross-platform testing** using Appium and other tools to ensure compatibility across mobile and desktop environments.
- Led a team in **identifying requirements**, enhancing frameworks, and writing optimized code snippets for automation, ensuring effective project delivery and performance.

Sr. Engineer, **Qentelli**,

Oct 2020 - May 2023

Client: **Smile Direct Club (SDC)** Domain: **Healthcare and Telehealth Domain**

Responsibilities:

- Developed **Python automation solutions** within established frameworks and cloud environments.
- Managed **Docker containerization** for seamless deployment across multiple OS platforms.
- Implemented **Selenium test automation** using Java and Python, ensuring functional accuracy, and maintaining test code.
- Optimized **mobile and desktop test outputs** with Appium for improved functionality.
- Strong proficiency in **unit testing, debugging**, and ensuring high-quality code.
- In-depth knowledge of **front-end technologies** (JavaScript, HTML5, CSS3).
- Demonstrated excellent **problem-solving, critical thinking**, and attention to detail in software development and testing.
- **Reduced manual testing by 70% and increased release frequency by 50%** with automated testing frameworks and efficient CI/CD practices.
- Achieved **95% test coverage**, ensuring product reliability.
- **Reduced cloud infrastructure costs by \$100K** through optimized automation and reporting processes.
- **Cut defect resolution time by 40% and reduced test script execution time by 30%** for faster cycles.

Software Engineer, **SS&C Technologies (Formerly DST)**

May 2019 - Sep 2020

Client: **Amisys Advance** Domain: **Health Insurance and Healthcare Administration**

Responsibilities:

- **Optimized code**, achieving a **40% reduction in load times**, significantly enhancing user experience.
- Collaborated with **cross-functional teams**, driving **product innovation**, and improving team synergy.
- **Integrated API**, expanding functionality and increasing **user reach by 35%**.
- Analyzed **user feedback**, driving **feature improvements** that enhanced product satisfaction.
- Utilized **web element locators** (ID, Name, XPath, CSS Selector) in **Selenium WebDriver** for effective **web application testing**.
- Demonstrated proficiency in **Gherkin language** to create **feature files** for **Cucumber** test automation.
- Logged **defects in Jira**, ensuring detailed defect tracking with clear defect types and resolution steps.
- Designed and developed **Page Object Model (POM)** based **automation testing framework** using **Java, Maven, Selenium WebDriver, TestNG**, and **Cucumber (Gherkin)**.
- Created **Page Classes** and utilized **Page Factory** to automate testing for web applications.
- Developed and executed **Test Cases, Test Scenarios**, and **Test Plans**, ensuring comprehensive test coverage and quality assurance.
- Generated detailed **Defect Reports** for enhancements, collaborating closely with the development team to ensure issue resolution.