

## Madhu Vanga

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### PROFESSIONAL SUMMARY:

**Automation Test Engineer / SDET** with 4 years of experience in telecom and networking domains, specializing in **Python-based test automation** using **Selenium, pytest and Robot Framework**. Hands-on experience in **automation framework development, regression automation, API testing, and performance testing (JMeter)**. Strong exposure to CI/CD pipelines, Agile methodologies, and defect management. Actively seeking **Automation/SDET roles** with focus on quality engineering and scalable test solutions.

### WORK EXPERIENCE:

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#### Amdocs – Pune, India

January 2024 - Present

##### Automation Test Engineer:

- Designed, developed, and maintained **Python-based automation frameworks** using **Robot and Pytest Frameworks** for progression and regression testing.
- Developed** a Python-based framework to automate 300+ test cases, **resulting** in a 40% reduction in manual effort.
- Performed **API validation** and service-level testing using **Postman and SoapUI**.
- Conducted **performance benchmarking** (load, stress, scalability, resiliency, Alarm) using **JMeter** to validate system behavior under peak loads.
- Proficient in Kubernetes, Nodes, namespaces, pods, deployment and Linux commands.
- Actively worked in an **Agile/Scrum environment**, managing test cases, execution, and defect tracking using **JIRA**.
- Created and maintained **test documentation**, ensuring clear knowledge transfer and alignment across teams.
- Worked on **5G core network testing** for **Policy Control Function (PCF)** and **Binding Support Function (BSF)** modules as part of the **Openet** project.
- Performed **functional validations of PCF** for dynamic policy decision handling based on subscriber profiles, QoS rules, and service requests.
- Executed **end-to-end call flow analysis** across PCF, BSF, and other 5G components (SMF, PA, UE) in lab and virtualized environments.
- Validated **BSF functionality** for accurate IP binding and seamless session management through Rx/SBI interfaces.
- Identified, analyzed, and reported **critical defects**, collaborating closely with developers to troubleshoot issues and improve system stability.
- Ensured compliance with **3GPP standards** during functional and integration testing.

##### Functional Test Engineer:

January 2022 – January 2024

- Contributed to **AT&T's SDN-NFV transformation** by executing **System Testing (ST), Integration System Testing (IST), and UAT**.
- Gained hands-on experience with **Network Virtualization (NFV/VNF)**, VNF modeling, network creation, and orchestration.
- Created **test plans and test procedures** based on requirements and executed end-to-end test scenarios.
- Applied device configurations through fabric automation and performed backups for validation.
- Supported defect lifecycle management using **JIRA**, ensuring timely resolution and quality delivery.

### TECHNICAL SKILLS:

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- Programming: Python
  - Automation Tools: Selenium WebDriver, Pytest, Robot Framework
  - Frameworks: Page Object Model, Data-Driven Test
  - API Testing: Postman, SoapUI
  - Containerization: Kubernetes, Nodes, namespaces, pods and deployment
  - CI/CD: Jenkins
  - Performance Testing: JMeter
  - Version Control: Git, GitHub
  - Defect Tracking: JIRA, ALM Octane
  - Databases: SQL
  - Methodologies: Agile / Scrum

### EDUCATION:

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#### Bachelor of Technology:

Vidya Jyothi Institute of Technology (CGPA 8.74/10)  
(JNTUH Hyderabad)

2018 - 2021

#### Diploma:

Abhinav Hi-Tech College of Engineering and Technology (76.21/100%)  
(State Board of Technical Education and Training)

2015 - 2018

#### **CERTIFICATIONS:**

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- AWS Cloud Practitioner (CLF-C02)
- Microsoft Azure Fundamentals (AZ-900)
- Software Testing Certification – QSpiders

#### **ACHIEVEMENTS:**

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- Silver Medalist, **Amdocs AQE Skill Olympics** – Amdocs, 2023
- Key Player Award for Project Transition Contributions – 2024
- Recognized for outstanding contribution to AT&T's Openet policy delivery for AON ISSU and ISSR – Dec-2025