JENIT R

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PROFILE

Electronics and Telecommunications Engineer with a **Master's in Information Systems** and over **2 ½ years of hands-on experience** in **Embedded Testing** and **Automation** at **Vertiv Energy**. **AWS Certified Solutions Architect – Associate** and ISTQB Foundation Level **certified**, with a robust foundation in **Cloud Computing**, **Test Engineering**, and **Automation frameworks**. Adept at leveraging **cloud technologies** to drive efficiency and scalability in complex systems. Passionate about contributing to innovative, **cloud-based solutions** and enhancing **automation testing.**

PROFESSIONAL EXPERIENCE

Vertiv Energy – Global Headquarters   Westerville, Ohio
- Engineering Intern – Product Development & Engineering [**ICOM Board Test Automation]**   May 2024- September 2024
- **Automated** test cases for **communication cards** using **Robot Framework**, cutting execution time by **75%** and improving overall test accuracy.
- Developed **Python scripts** to automate **fan speed tests**, visualizing real-time data using **Matplotlib**, and providing insights into system performance.
- Integrated the **Python automation scripts** into the **Robot Framework pipeline**, creating a seamless process that minimized manual intervention and improved testing efficiency by **50%**.
- • Designed **simulation-based testing** scenarios, enhancing validation of embedded systems in varied **thermal conditions**.
- Documented **test scripts** and system behaviors for internal knowledge base, ensuring smoother handoffs and better onboarding for future interns.

Vertiv Energy – Global Engineering Center Pune   Pune, India
Associate Engineer- Embedded Testing   June 2021- July 2023
- Conducted **API testing**, **data mapping**, and **regression testing** for **RDU101 and UNITY Communication cards**, ensuring seamless integration and communication.
- Developed detailed test documentation and automated workflows for **Postman** to ensure efficient **API validation and coverage**.
- **Enabled independent testing** by training the **India team**, reducing external dependencies and improving team productivity by **95%**.
- **Led troubleshooting efforts**, working with **Wireshark** to resolve network issues in protocols like **LLDP**, **SNMP**, and **Modbus**.
- Configured and maintained lab environments for **IPV4, IPv6, DNS, DHCP, RADIUS, TACACS**, and **LDAP protocol testing.**
- Delivered over **25 milestones** contributed to power systems testing for **GXT4** and **GXT5 UPS devices.**

TECHNICAL SKILLS

Programming Languages: Python **| Database Management:** MySQL, DynamoDB **| Libraries:** matplotlib **| Test Management Tools:** Test rail, Rally
Communication Protocols: MODBUS, BACnet, SNMP **|Test Automation Tools:** Robot framework **| Network Analysis Tools**: Wireshark
Cloud: AWS S3, Lambda, API Gateway, Route 53, CloudFront, AWS SAM, GitHub Actions

Projects

Cloud Resume Challenge | *Personal Project*
- Developed and deployed a **static website** using **AWS S3**, **Route 53**, **CloudFront**, and **API Gateway**.
- Created a **visitor counter** using **Lambda (Python)** and **DynamoDB** to track site traffic.
- Added **unit and integration testing** for Lambda function using **pytest**, improving backend reliability and achieving **100% test coverage**.
- Implemented **CI/CD** pipeline with **GitHub Actions** for **automated deployments**.
- Website - https://jenitransinh.com

EXTRA-CURRICULAR INVOLVEMENT AT VERTIV ENERGY

Vertiv Energy – Global Engineering Center Pune, Associate Engineer- Embedded Testing   June 2021- July 2023
- Trained **6** team members to ensure a comprehensive understanding of the products.
- Engaged in Vertiv "**Technovation day**" and provided a comprehensive explanation of DHCP IPv6, demonstrating how the implementation led to cost saving of **1205$** within the organization, emphasizing the financial benefits of the technology.

EDUCATION

Pace University- Seidenberg School of CSIS, Master's in Information Systems   New York, NY   May 2025
Relevant Coursework: Database Management Systems, Python, Data Science 1 & 2, Big Data

Mumbai University, Bachelor of Engineering | **Concentration**: Electronics and Telecommunications   Mumbai, India   October 2020
Relevant Coursework: Image Processing and Machine Vision, Network Management, Wireless Network

CERTIFICATIONS

Amazon Web Services: Solutions Architect Associate **| Software Testing:** ISTQB Foundation level **| Post Graduate Diploma:** Embedded Systems