

Logesh Sakthivel

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SUMMARY

Senior QA Automation Engineer with nearly 5 years of experience in automation testing across networking domains. Expertise in building scalable automation using **Python** and **pyATS** and extending **Pytest** with custom plugins and features for **API, CLI, and GUI validations**. Strong background in **network protocol testing, Linux environments, and CI/CD integration**. Proven ability to lead automation strategies, optimize test coverage, and deliver high-performance validation for wireless and enterprise networking solutions.

SKILLS

Programming/Scripting: Python, Golang, Bash scripting

Frameworks: pyATS, Pytest, Playwright, Robot Framework, Django

OS: Linux, Windows, MacOS

Tools: Postman, Git, Jenkins, Wireshark, Docker, Scapy, tcpdump, Ixia

Protocols: NETCONF, RESTCONF, DHCP, ARP, DNS, TCP, UDP, VLAN, IPv4, ICMP, TLSv1.2, HTTPS

Wireless & Security Standards: 802.11 b/a/g/n/ac, WPA/WPA2

APIs: REST, GraphQL, gRPC

WORK EXPERIENCE

Verizon

Aug 2025 – Present

Engineer III Spec Test Automation

Aug 2025 - Present

SDN Controller - BNC/NEAP | 5 months

- Executed **comprehensive regression testing** and certification for SDN controller releases, validating system-wide functionality across both **monolithic (BNC)** and **Kubernetes-based microservice (NEAP)** architectures.
- Developed automation test scripts using **Playwright** for both the Controller Admin Console **UI** and its corresponding **APIs**.
- Implemented a **shell-based bootstrap script** to fully automate testbed setup and device onboarding, **eliminating 90% of testbed-level setup errors** and ensuring regression failures were isolated to genuine feature defects.
- Acted as the **technical liaison** for the Operations team, **analyzing and triaging all UAT-reported issues** to ensure rapid routing and resolution by the appropriate development teams.
- Developed a **FastAPI-based backend** to simulate network devices (Cisco, Juniper, Nokia, etc.) using **ConfD containers** and **Yang models**. Managed the full device lifecycle, including creation, deletion, and mounting to the **OpenDaylight (ODL) controller**. Built the container management modules and a **WebSocket API** using **asyncssh** to enable asynchronous SSH access to simulated devices directly from the UI.

VVDN Technologies

Jan 2024 – Aug 2025

Senior Engineer (QA)

Jan 2024 – Aug 2025

TCU SoC testing | 18 months

- Designed and developed custom Pytest framework plugins** tailored for TCU testing, ensuring modularity, reusability, and faster execution.
- Automated TP-Link smart device interactions** using Kasa API.
- Built a generic power interface** compatible with multiple PDU vendors, streamlining TCU power operation controls across platforms.
- Led QA automation team:** Directed framework strategy, mentored junior engineers, and maintained code quality through rigorous PR reviews.
- Automated test case execution** for release validation, including **sanity, screening regression, and full regression testing**.
- Executing **MVP test** to validate software builds before customer shipment.
- Collaborating closely with **DevOps** to **develop and optimize CI/CD automation pipelines**, ensuring fast and reliable delivery cycles.
- Designed and developed a Django-based Web UI Test Execution Portal** for TCU SoC automation, enabling streamlined execution of Sanity, Feature, and Regression test suites with features like **testbed management, execution history tracking, and integrated log viewer**, significantly improving team productivity and visibility.

Network Test Platform automation | 1 month

- Developed end-to-end automation** for the MTS 5000 network test tool **from scratch using Python**, covering

traffic setup to performance statistics collection.

- Automated diverse **network traffic types** including **Layer 2,3,4**, and **7 traffic** configurations and validations.
- **Leveraged Netmiko** for robust and reliable **CLI-based device communication and automation**.
- Built modular and scalable codebase to support **repeatable test scenarios**, reducing manual effort and increasing test coverage
- Ensured automation accuracy and efficiency through continuous testing, logging, and exception handling

embedUR systems

Feb 2021 - Dec 2023

Senior Software Engineer

Jun 2023 – Dec 2023

Cybervision | 7 months

- Collaborated with a 3-member QA team to perform **scale and stress testing** of Cisco Cyber Vision (CV) across multi-node deployments involving both local and global CV servers.
- Developed robust **automation scripts** using **pyATS** for validating **CV REST APIs** and **CLI commands**
- Simulated high-scale environments by deploying sensors on Cisco IE switches and measuring **CV performance metrics** under traffic-intensive conditions.
- Created a dynamic **PDF test summary report** using Python's **FPDF module**, including device details, traffic profiles, key performance statistics, and visual performance graphs—enhancing clarity for stakeholders.

Software Engineer

Jun 2021 – May 2023

CURWB | 14 months

- **Solution-level automation testing** for Magnum and Jeroboam wireless products in a team of 3, focusing on real-world deployment scenarios across **verticals like railways, mining, windfarms**, etc.
- **Automated end-to-end test scenarios** include device configuration, traffic generation, and validation using **pyATS framework in Python**, covering **failover/failback**, **Layer 2/Layer 3** behavior, and **wireless REP switch convergence**.
- Conducted **Point-to-Point (P2P) link distance testing**, configuring radios over varying distances (2 km to 32.5 km), measuring **negotiated throughput rates**, and validating stability by injecting 60% traffic load.
- Developed automation to handle both **REST API** and **CLI-based operations**, ensuring robust and scalable testing coverage.
- Created a **single script framework** capable of dynamically adapting to multiple configurations and deployment profiles, improving maintainability and reusability.

Profinet traffic Simulator | 1 month

- Developed a **CLI tool in Golang** to replicate **Profinet traffic**.

Cisco SD-Access Fabric Wireless | 4 months

- Part of a 5-member team responsible for **validating campus wireless connectivity** and **device lifecycle automation** in Cisco DNAC-based fabric environments.
- **Automated end-to-end device onboarding workflows** using Cisco DNAC, including **image activation**, **wireless provisioning**, and **SGT (Security Group Tag) validation** for wireless clients in the fabric.
- Ensured **wireless segmentation and policy enforcement** through SGT validations across different fabric configurations.
- Utilized the **pyATS framework in Python** to build automation across **API, GUI, and CLI interfaces**, enhancing test coverage and reducing manual overhead.

SCADA t104 | 1 month

- Simulated **SCADA t104 traffic** using **Scapy in Python**.
- Created **Python libraries** from the ground up for **creating and parsing t104 packets**.

Fluidmesh | 4 months

- **Automated end-to-end test scenarios** for Fluidmesh wireless mesh solutions using **Python**, streamlining device configuration, traffic generation, and validation workflows.
- Developed test automation for **Dashboard REST API** and **Device CLI**, enabling consistent and repeatable configuration of Fluidmesh devices and network states.
- Implemented test coverage for critical networking scenarios including **fast failover**, **failback**, **QoS traffic validation**, and **REP (Resilient Ethernet Protocol) link failure tests** to measure convergence and stability.
- **Integrated Ixia Network API** for simulating traffic and collecting performance stats.
- Automated result reporting by updating **TIMS** and sending **real-time notifications via Webex Teams**, improving visibility and communication across teams.

Project Intern

Feb 2021 – May 2021

Astral Cloud QA | 4 months

- Responsible for testing basic GUI functionality.
- Validation of device registration on the Astral APP.

ACHIEVEMENTS

- **Awarded the Spot Award** for successfully completing the SCADA traffic simulation Proof of Concept (PoC) while effectively managing parallel project responsibilities.
- **Earned recognition from both customers and management** for delivering excellence in the SCADA traffic simulation PoC, showcasing technical expertise and commitment.
- **Received formal appreciation from leadership** for high-quality contributions to the Axiado project, including proactive involvement in JDSU tool automation and mentoring team members beyond regular hours.

EDUCATION

B.E. in Electrical and Electronics Engineering
Government College of Technology - Coimbatore, CGPA 8.0 out of 10

Aug 2017 - Mar 2021

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect – Associate