

# UDAY SINGH BHADAURIA

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## PROFESSIONAL TITLE

Principal QA Engineer | RDK-B Expert | Automation & DevOps Specialist

## PROFESSIONAL SUMMARY

Dynamic and results-driven QA and DevOps professional with 15+ years of proven expertise in testing, triaging, and automating RDK-B systems for major telecom clients like Comcast and Nvidia. Adept at building automation frameworks, leading cross-functional teams, and delivering high-impact solutions in CPE environments using Python, Linux, and cloud-native technologies.

## CORE SKILLS

RDK-B QA & Triage, Automation Frameworks (Python, Shell), CI/CD (Jenkins, Docker, GitHub Actions), CPE Testing: DOCSIS, WiFi, Ethernet, Debugging Tools: tcpdump, Wireshark, Agile & Scrum, REST APIs, Team Leadership & Project Management, Flask API development

## TECH STACK

Languages: Python, Shell, C

Tools: Jenkins, Git, Jira, Confluence, Postman, Splunk, ELK

Protocols: TCP/IP, DHCP, DNS, HTTP/HTTPS, SNMPv2/v3, TR069/TR181

Web UI Testing: Selenium (Java/Python), REST APIs

Platforms: Linux, Windows

CPE Devices: Comcast XLE, Fiber, Cable Modems

## EXPERIENCE

### Cognizant Technology Solutions | Nvidia USA

DevOps & RDK-B Automation Lead | Oct 2024 – Present

- Developed CI/CD pipelines using Jenkins, Flask APIs, Docker for RDK-B deployment.
- Built AI voice assistant PoC for real-time CPE script execution over calls.

- Integrated MQTT/ZMQ telemetry on Raspberry Pi with GitHub workflows.

### **Infosys Ltd | Comcast Cable, USA**

QA Automation & Triage Lead | Mar 2016 – Oct 2024

- Led QA triage and DevOps efforts for over 8 years on Comcast's CPE product suite.
- Implemented full-stack automation using Python, Flask APIs, and Jenkins CI/CD.
- Validated core RDK-B features: WiFi QoS, Cujo Security, xDNS, TR-069, SNMP.
- Mentored teams, reviewed code, handled escalations and sprint planning.

### **Infosys Ltd | Comcast Cable, India/USA**

QA Engineer – RDK-B Validation | Jan 2014 – Mar 2016

- Created automation tools for TR-181, SNMP, WEBPA features.
- Conducted deep-dive testing on eRouter, NAT, DNS, remote management modules.

### **Infosys Ltd | Triumph Aero-structures (Aerospace)**

Test & Stress Engineer | Mar 2010 – Dec 2013

- Designed tools in C/C++ for test automation and stress analysis.
- Led a team of 9 engineers for component testing and report preparation.

## **EDUCATION**

### **Bachelor of Engineering**

Uttar Pradesh Technical University, India