

STUDENT CODE: NK123123202

Quality and Automation Engineer-2

ABOUT ME

An automation engineer with a background in broadband technology and networking. My passion for cybersecurity drives me to explore roles where I can apply my skills to enhance system security.

WORK EXPERIENCE

Quality and Automation Engineer-2, Comcast

May 2022 - Present

- Being a part of CPE (Broadband and Video devices) QA where my role is focused on validating and automating the New Feature Implementations.
- Validated and automated Security User Stories including TLS migration, Firewall Iptables migration, TCP latency Measurement and Speedboost via PvD etc.
- Working closely with the developers and architects to understand the New Feature Acceptance Criteria, then create test plan with positive and negative scenarios.
- Critical User Stories Worked:
 1. TLS Version Migration (Security US)
 2. Firewall Iptables Migration (Security US)
 3. TCP Latency Measurement for Connected Clients
 4. Gateway Prioritization of Connected Clients
 5. WAN and Gateway Failover Testing
- CPE automation development with Python.
- Protocols Known with Theoretical and Practical Exposure:
Ethernet, ATM, PPP, IPv4(subnetting), ICMP, ARP, DHCP, TCP, UDP, SNMP, FTP, HTTP
- Functionalities Tested:
IP address assignment, NAT (Port Forwarding, DMZ), SSH, Telnet, Parental Control (Time Restriction), Telemetry, Router GUI, Bridge mode, Access Control List, Extender Connectivity, Console access, Firmware upgrade/downgrade test, WiFi 2.4GHz, 5GHz
- Development tools: Python Scripting
- Testing tools: Wireshark, IPerf3, Putty, Cisco Packet Tracer
- Platforms: Linux (Ubuntu, Kali), Windows
- Bug tracking tool: JIRA
- Project management tool: qTest, Comcast Proprietary Tools (Octane, STBIT, CATS etc)

Software Engineer, Proadapt Solutions

Aug 2019 - May 2022

- Preparing Use cases and Test cases once new feature or product is developed.
- Analyzing new requirements and responsible for working on the field issues (issues faced by customers).
- Performing End-to-End testing once the release builds are available and arresting major functionality breakages at the earliest stages.
- Performing Sanity, Regression, Performance testing for each GA release of the products.

- Protocols Known with Theoretical Exposure:
STP, VTP, IPv6, Linux Firewall with NetFilter iptables, Nmap Port Scanning
- Standards and Technologies Known:
TR-069, TR-143, Wired and Wireless LAN (Wi-Fi testing includes 2.4GHz and 5GHz radio, channels, bandwidth performance testing), WAN, VLANs

EDUCATION

eMasters Degree in Cyber Security	2022-2023
Indian Institute of Technology (IIT) Kanpur, India	
Bachelors of Engineering (ECE)	2015-2019
Sri Venkateswara College of Engineering, Chennai	
Class 12	2015
Sri Raghavendra Matric Hr. Sec. School	
Class 10	2013
Sri Raghavendra Matric Hr. Sec. School	

AWARDS

Received SpotLight Award thrice, for the Automation contributions on critical User Stories.	2020, 2021, 2022
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SKILLS

- Manual and Automation Validations
- Network Protocol Testing and Log Analysis

INTEREST

- Reading Books
- Listening to Music

PERSONAL PROFILE

- Age: 27 (as of 10th May)
- Gender: Male
- Nationality: Indian
- Annual Current Salary: 12.3 L