

# STUDENT CODE: NK123123202

## Quality and Automation Engineer-2

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### 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.

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### 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, Prodapt 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
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## 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

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## 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
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## INTEREST

- Reading Books
  - Listening to Music
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## PERSONAL PROFILE

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