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SHUBHAM THAPAN
Product QA & Automation Lead

PROFESSIONAL SUMMARY

Product QA Lead, Automation Architect & Wi-Fi/WLAN QA with 10+ years building QA strategy, modernizing automation frameworks, and launching connected consumer products at scale. Portfolio • Linkedin • Github

EMPLOYMENT HISTORY

PRODUCT QA & AUTOMATION LEAD (FIRE TV)   **2018 - Present**
Amazon   *Arlington, USA*

Fire TV – Product QA (1P NPI), USA | 2022 – 2025

- Owned end-to-end QA strategy for 1P NPI Fire TV devices (High-end Smart TVs, Stick 4K) from prototype through launch, delivering **3 global releases with 4★ customer ratings**
- Ensured stability across **25+ Fire TV components/APKs** (Prime Video, Launcher, Settings, OOBE) through KPI-driven regression tracking.
- Worked closely with **TPMs, PMTs, and Beta PMs** during daily triage and launch alignment meetings, representing PQA for 1P NPI devices.
- Collaborated with **India and China QA/Engineering teams** to track **regression milestones**, **automation progress**, and **daily execution status**, ensuring aligned launch readiness for global Fire TV releases.
- Architected and expanded end-to-end automation systems across **multiple Fire TV automation frameworks**, including defect-triage tooling, software-update workflows, and lab automation—reducing manual effort by **70%**, increasing automation efficiency from **30% → 90%**, and enabling resilient, self-healing execution.
- Owned the **Arlington 1P NPI PQA lab**, ensuring host/device readiness for CI pipelines while supporting automation development, framework stabilization, and reliable dry-run validation.
- Contributed to Fire TV Hotspot's low-cost, Prime-integrated home internet initiative by validating mesh LAN–WLAN transitions, provisioning flows, **throughput**, and **Wi-Fi stability**, while strengthening automation workflows to improve regression consistency and reduce manual cycles.
- Owned connectivity readiness for multiple Fire TV releases, leading **Wi-Fi/CoEx** validation across device generations and enhancing automation to improve test reliability, reduce regressions, and ensure launch-quality stability.

SR. SOFTWARE ENGINEER, WLAN   **2015 - 2018**
Qualcomm   *India*

- Collaborated with the Release team to deliver multiple QCA WLAN chipset releases, driving comprehensive sanity and stress and stibility validation across product cycles.
- Led WLAN automation by building and maintaining **20+ automated setups**, designing a **150+ device stress and max-client lab**, and developing ML-driven test prioritization models, resulting in improved execution efficiency, faster defect detection, and more reliable system-level performance testing.

ACHIEVEMENTS

- **Co-led automation framework modernization**, improving execution velocity and system reliability across Fire TV automation workflows.
- Received **Amazon recognition for modernization efforts and delivery speed**, reflecting consistent impact on product readiness.
- Supported **multiple Fire TV launches with zero critical post-release defects**, reinforcing high customer-impact quality standards.
- **Trusted by leadership** for performance evaluations, quality bar assessment, and promotion feedback due to strong technical and leadership judgment.
- Awarded **Qualcomm Director's Appreciation** for automating **20+ WLAN validation setups**, significantly accelerating test throughput and stability.

SKILLS

Leadership:
Launch QA ownership • Quality strategy • Cross-functional alignment • QA sign-offs • Triage leadership • Mentoring • Driving quality bar • Lab and CI ownership • Process improvement initiatives

QA & Automation:
End-to-end automation • UI automation (Selenium • Appium • UI Automator) • ADB device orchestration • Regression testing • Stability testing • KPI gates • Triage

Wireless & Connectivity:
IEEE 802.11 • Wi-Fi • iPerf throughput testing • RVR testing • Shield box testing • Wi-Fi lab environments

Programming:
Python • Bash

AI & ML Tools:
Amazon Q • Bedrock APIs • OpenAI GPT APIs • AI-assisted automation • LLM-based defect triage

Cloud & Tooling:
AWS Lambda • AWS Step Functions • AWS EC2 • S3 • Jenkins CI/CD • REST/CLI tooling • Git

EDUCATION

PG DIPLOMA   **Aug 2014 - Mar 2015**
C-DAC   *India*
Embedded System Design

B. TECH   **Jun 2009 - Jun 2013**
JSSATE Noida   *India*
Electronics & Communication