R Charan

Software Development Engineer in Test

Bangalore, India · +91 8971297535 · charanravi.online@gmail.com · LinkedIn · GitHub · Website

---

PROFESSIONAL SUMMARY

SDET with over 3 years of hands-on experience in Tool Development, Automation for AI Models and Managed a 4 Member team. Gained invaluable experience in testing (ISTQB Certified) and automating for webOS OSE, Apollo Project, Android, and Home Appliance & AirSolution domains at LG. Also an active contributor to the open source community on GitHub.

EXPERIENCE

2021-Present LG SOFT INDIA   Bangalore, India

Software Development Engineer in Test

webOS OSE
- Managed the allocation, coordination, and management of a team to successfully release webOS OSE v2.20.1, ensuring testing completion within established timelines and meeting 100% good quality standards.
- Identified, resolved, and verified resolution of 20 bugs (100% bug fix rate).
- Implemented an automation framework from scratch, that automates & tests the firmware updates to a number of products like Air Conditioner, Refrigerator, Washing Machine and Android devices providing 100% confidence in the Firmware Updates.
- Conducted training sessions for team members on new testing frameworks and tools, enhancing their skills and productivity.

AITS (AI Testing Solution)
- Created and Enhanced the internal AI testing tool (AITS) which focuses on testing of the AI models such as ASR, NLP, TTS, ETWD etc and custom proprietary AI Engines increasing efficiency by 12%.
- Automated Tests for AI Models using tools such as Python, Jenkins & Jmeter hereby enabling tests to run in a continuous integration environment to ensure that AI models are functioning properly meeting the set standards.
- The application we authored, tests the AI models, automates test scenarios, generates and publishes reports automatically reducing the manual work by almost 70%.
- Extended automation frameworks to support testing across multiple domains, including Home Appliance & AirSolution, resulting in increased test coverage and efficiency by almost 30%.

PROJECTS (PERSONAL & GITHUB OPEN SOURCE CONTRIBUTIONS)

2024   WIKI

Wikipedia From Your Terminal
- Developed, authored and an active maintainer of a Python-based CLI tool for searching and viewing Wikipedia articles from the terminal which can increase user efficiency by 30%.
- The application can be downloaded and used on a number of linux distros which support snap, by Canonical and Windows machines.
- **Link :** https://snapcraft.io/wiki

2023   BTC CONVERTER

A Simple BTC to Satoshi Converter
- Contributed to the development of the "SatsConverter" at The Bitcoin Association of Hong Kong repository, which resulted in a 40% increase in user engagement.
- Fixed several bugs that improved the overall stability, performance and accuracy of the website.
- **Link :** https://rates.bitcoin.org.hk/

CERTIFICATIONS

2023   ISTQB FOUNDATION LEVEL

ISTQB International Software Testing Board | Credential ID: CTFL-126241 India

2023   PYTHON

HackerRank | Credential ID: dfa000422e2e

2023   **Web Development Cohort**
100xDevs | Credential ID: hwjgvfbswp

Technical Skills

Languages: **Python, Go, HTML, CSS, JavaScript**

Tools: **Jenkins, Git, GitHub, Firebase, Jmeter, Postman, Docker, Bash, Linux**

Frameworks: **Appium, Selenium, Pytest, Next JS**

Software Methodologies: **Agile Software Development Practice**

Education

2018-2021   **MS Ramaiah College of Arts, Science & Commerce**   Bangalore, India
Bachelors in Computer Application (8.7 SGPA)

Others

Awards   **Pull Shark**
Awarded "[Pull Shark]" and "[Quickdraw]"by GitHub for submitting high-quality pull requests demonstrating strong collaboration skills within the open source community and resolving a bug within 5 minutes of opening.

Interests   **AI, Open Source, Music Composition, Data Structures & Algorithms**