

# R Charan

Software Development Engineer in Test

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## 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.

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## 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 by 50%.

#### **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%.
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## 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.
- **Deployed** - <https://snapcraft.io/wiki>
- **SourceCode** - <https://github.com/charanravi-online/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.
  - **Deployed** - <https://rates.bitcoin.org.hk/>
  - **SourceCode** - <https://github.com/bitkarrot/satsconverter>
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## CERTIFICATIONS

2023

### **ISTQB FOUNDATION LEVEL**

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

2023

### **PYTHON**

HackerRank | Credential ID: dfa000422e2e

## TECHNICAL SKILLS

Languages: **PYTHON, HTML, CSS, JAVASCRIPT**

Tools: **JENKINS, GIT, GITHUB, FIREBASE, JMETER, POSTMAN, DOCKER, BASH, LINUX**

Frameworks: **DJANGO, FLUTTER, SNAPCRAFT**

Software Methodologies: **AGILE SOFTWARE DEVELOPMENT PRACTICE**

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## EDUCATION

2018-2021	<b>MS RAMAIAH COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <i>Bachelors in Computer Application (8.7 SGPA)</i>	Bangalore, India
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## OTHERS

Awards	<b>PULL SHARK</b> <i>Awarded "<a href="#">Pull Shark</a>" and "<a href="#">Quickdraw</a>" 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.</i>
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Interests	<b>AI, OPEN SOURCE, MUSIC COMPOSITION, DATA STRUCTURES &amp; ALGORITHMS</b>
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