
SAI SWAROOP AMMILINENI

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PROFESSIONAL SUMMARY

- Results-driven software **QA Engineer** with over 6 years of experience in **Python** and **Java** programming languages, specialized in **Automation** in utilizing frameworks such as **UnitTest, PyTest, JUnit**.
- Mastery in employing tools like **Selenium, Playwright, and Cypress** to enable efficient and effective high-performance Testing.
- Strong knowledge of **Telecom & Media domain** (STB's, Broadband, RDK, Smart TV, OTT Apps) with extensive **regression, functional, adhoc, manual, UI** and **integration** testing experience.
- Worked in **Linux/Unix/OSX** environments, different **Broadband** and **Video OEM** devices, configuring test environments and troubleshooting issues in complex **TPX** projects across **Comcast** products.
- Well-versed in utilizing version control (**Git, HG**) to ensure efficient collaboration in code management.
- Proficient understanding of **SOAP** protocols and **RESTful API's**, coupled with extensive expertise in network protocols including **TCP, UDP, vLAN, and DHCP**.
- Skilled in front-end technologies including **HTML5, CSS3, JavaScript, TypeScript** with hands-on experience in frameworks like **Django, React and NodeJs**.
- Deep understanding of database management systems such as **SQL, NoSQL, and MongoDB**.
- Lead multiple projects with revamped training patterns for new hires, resulting high productivity in **business solutions**.

SKILLS

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|---|--|
| • Programming Languages - Python, Java | • Tools & Frameworks - Selenium, Playwright, JUnit, Cypress, UnitTest, Django, Npm, Snowflake. |
| • Scripting Language - JavaScript, Typescript. | • SDLC/SDET - Agile, Waterfall. |
| • Web Technologies - React, NodeJs, Angular, HTML, CSS, Bootstrap. | • SCM - Git, HG. |
| • Databases - SQL, MySQL, PostgreSQL, MongoDB. | • Software Tools - Postman, Splunk, X-Conf, Grafana, Kibana, Automatics, Windows, Terminal, Jupyter, VisualStudio, PyCharm. |
| • OS - Windows, Ubuntu, Linux, Unix. | |

WORK HISTORY

Graduate Research Assistant

JAN 2022 - MAY 2023

Texas A&M University – Corpus Christi, TX

- Collaborate with professors to develop **web applications** using **Django framework** for RecSports department.
- Spearheaded the implementation of automated testing for **GUI components** in web applications using **Playwright & UnitTest** Framework, increased testing efficiency by 40% and reduced error rates by 35%.
- Utilized **AWS** services **EC2 & S3** to deploy and host web apps, resulting in 90% uptime and ensuring seamless user experience.
- Maintained **1000+** students data(fusion app) using **MongoDB** with both **SQL & NoSQL** databases.

- Supervised and mentored **9 undergraduate students**, providing guidance on software development best practices and aiding to troubleshoot technical issues.

QA & Automation Engineer 2

JAN 2019 - MAY 2021

Comcast – Chennai, Tamilnadu, India.

- Developed and maintained over **200 test cases** using Java and Python for various **OEM's** of **XB's** and **STB's**, resulting in an average reduction of manual test execution time by **60%**.
- Conducted daily regression and functional tests on an average of **4 different software builds**, covering a total of **1000+ test scenarios** monthly.
- Utilized different programming languages to create **11 robust** and scalable **test scripts** for the video automation team, resulting in a **30%** increase in weekly productivity.
- Led **Platco & Sky Rack** teams with end-to-end testing, contributing to the successful launch of Hisense TV and XIONE platforms in field with **1 million+ active users**.
- Actively participated in over **50 code reviews** across multiple projects, providing constructive feedback and improving overall code quality.
- Collaborated with **3 cross-functional teams** to design and implement test strategies for **RDKB, RDKV** and **SmartTV** development, resulting in a **25%** reduction in video-related defects and improved video quality for Comcast users.
- Integrated Jenkins for automated build and test execution, enabling seamless **CI/CD** integration and reducing deployment failures by **35%**.
- Experienced in working in **agile environments** with **scrum master** principles, collaborating with stakeholders, and providing regular project progress updates in the field of video technology.

Software QA Developer

APR 2017 - DEC 2018

Msystechnologies – Chennai, Tamilnadu, India

- Developed and Implemented **3** distinct testing methodologies to automate **85%** of test cases using Selenium and UnitTest, resulting in a **40%** reduction in the duration of regression testing.
- Employed full stack development technologies such as **Java Spring Boot** for backend and **React** for frontend to develop Nimble storage **GUI components** with the help of Maven tool.
- Designed and implemented **2** storage management applications using Java-based **RESTful APIs** using Spring Boot, resulting in a **30%** improvement in UI responsiveness with respect to storage components.
- Integrated Jenkins for automated build and test execution, enabling seamless **CI/CD integration** and reducing deployment failures by **35%**.
- Utilized AWS storage services, such as Amazon **S3** and **EBS**, to simulate storage environments, align with industry-standard protocols, enhancing compatibility and scalability.

EDUCATION

M.S: Texas A&M University - Computer Science Engineering
Corpus Christi, TX.

08/2021 - 05/2023

B.E: Sri MuthuKumaran Institute of Technology - Computer Science and Engineering
Chennai, Tamilnadu, India.

04/2012 - 05/2016