



# SUDENDRA PRIYAN

ENGINEER - TEST AUTOMATION

## EXECUTIVE PROFILE

A competent professional with 4 years of experience in Quality Assurance who is focused on delivering high quality products. Hands on experience in building Automation Frameworks from scratch.

## TECHNICAL SKILL

Programming Language:

- Python, Java , Node JS

Test Automation Tool:

- Selenium, Appium

Testing Framework:

- PyTest, UnitTest and TestNG

Bug Reporting:

- Jira & Pivotal Tracker

CI Tool used:

- Jenkins & Github actions

## OTHER INTERESTS

- Gaming Enthusiast
- Big time Cricket fan
- Up for any outdoor sports
- Nolan movies
- TV Shows

## EMPLOYMENT HISTORY

FourKites | January 2020 - Present

Responsibilities:

- **Test Framework Development:**
  - **Core member** of the team which was responsible for **creating a Testing framework(Pytest)** from **scratch**
  - The framework was developed to support both **API & UI cases**.
  - The framework supports both parallel and sequential execution.
  - Reporting for each execution is controlled via flag and the framework provides **3 different report** projection - (**HTML report, Allure Report and TestRails Report**)
  - Overnight regression is achieved using **Scheduled Jenkins job** and after each execution, A custom email report is sent to the entire engineering team.
- **Selenium GRID Infra setup:**
  - The framework is developed to support both **Selenium Webdriver** and **Selenium Grid** Infrastructure.
  - Selenium GRID setup is achieved with help of **Docker**.
  - As the framework had to support test execution in multiple browsers, a **multi container** was required, So **docker-compose** tool was used to **deploy Selenium GRID**.
- **Jenkins CI Integration:**
  - Since all UI and API cases are maintained under a single repo, Running all of them under a single job caused a **huge delay in execution time (1.5hrs)**. Main reason being UI cases takes longer time to execute.
  - Running API and UI cases in parallel under a single slave machine took a toll and the chrome driver started crash as the number of test cases increased.
  - So I created a **Jenkins pipeline** to **optimise** test execution time(**~40min**) with smooth UI test case execution.
  - The Jenkins pipeline was able to execute **multiple Test jobs in parallel** and send a **consolidated email report** at the end of execution.
  - This gave us the **advantage** of running UI and API cases at the same time but in a **different Jenkins node**.
- **Innovations:**
  - Developed a **makefile** comprising all the test commands, dependencies installation command, docker compose commands. This setup achieved a **minimal verbal interaction with CLI**.
  - The make file was designed to fit the entire testing life cycle under 3 simple command.
  - **make start-test -> make test -> make stop-test**
    - **make start-test** - Install dependency, Establish GRID network, etc
    - **make test** - Will perform actual testing
    - **make stop-test** - Tear down process which will clear cache, Close the GRID network

## CONTACT DETAILS

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### Social:

- <https://www.linkedin.com/in/sudendra-priyan/>
- <https://github.com/sugu07>

- **Email Verification system:**
  - For a particular use case we had to test email contents but via automation **we generate 1000 +** emails, To handle this efficiently a custom email verification system was implemented
  - Automation cases generate more than 1000+ test email, Sending out email via regular Sengrid would not be **cost efficient**.
  - So only for testing the environment the emails are forwarded to a **custom endpoint**.
  - The custom endpoint is a **node JS** application which is deployed in an **AWS EC2 instance** using **PM2**.
  - The instance will store all the test emails in a **MySQL database**. Then for testing we fetch the row using a unique id and the **email content verification** happens with the help of **HTML Parser**.

## TEST ENGINEER

**HappyFox | January 2019 - December 2019**

### Responsibilities:

- Built an effective Automation Framework from scratch for UI automation using Selenium Webdriver - Python
- Built an Automation Framework from scratch for API automation using Python
- Write automation scripts for performing regression testing and build verification.
- Version Control using GitHub.
- CI used for Front End Framework - Travis CI & CI used for Back End Framework - GitHub Actions
- As a lone API Tester ,I Was responsible for testing the entire V2 HappyFox Chat Backend Project
- API Testing for REST API & Websockets done with extreme caution
- Front End Regression Testing done during every release
- Triaging the bugs raised by Front End testing team and assigning it to relevant department

## SOFTWARE TEST ENGINEER

**Infosys Ltd. | June 2016 - January 2019**

### Responsibilities:

- Worked for a US based banking client.
- Worked on various POC for automation testing for the banking product.
- Contributed regularly to Java TestNG framework by adding test cases to already existing framework.

## EDUCATION HISTORY

### PANIMALAR INSTITUTE OF TECHNOLOGY

#### B. Tech in Information Technology

(2012-2016) in Panimalar Institue of Technology with an aggregate of 75%.

### MKM MATRICULATION HR. SEC. SCHOOL

#### High School

(2010-2012) in MKM Matriculation Hr. Sec. School with an aggregate of 76%.