

Venkatesh Manchala

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SUMMARY

SDET with 3+ years of experience in web and mobile automation (iOS, Android, Flutter). Expert in **Playwright, Appium, and Selenium** for building **robust test frameworks from scratch**. Skilled in **API automation, payload validation, and Excel-based test reporting**. Proficient in **CI/CD (Jenkins, Docker)**, streamlining **QA pipelines**, and implementing **automation best practices**. Proven track record of **automating complex HRMS workflows, improving test coverage, and accelerating release cycles** with **high-quality deliverables**.

WORK EXPERIENCE

SDET, *Darwinbox* ↗

June 2023 - Present | Hyderabad, India

Mobile Automation (iOS, Android, Flutter): Designed and implemented a **hybrid automation framework** integrating **POM (Page Object Model), BDD (Behavior-Driven Development), Navigation Flow, and Data-Driven** approaches for better scalability. Built the framework from scratch, covering **Recognition Vibe, Profile Management, and Expense Reimbursement Automation**, reducing **80% manual efforts**. Ensured cross-platform compatibility across **iOS, Android, and Flutter apps**.

API Automation: Developed automated scripts for **API testing**, dynamically generating payloads, validating responses, and maintaining test data in **Excel sheets**. Introduced **Spring Boot** for structured API testing using **POJO classes**, improving test efficiency.

Framework Development & Optimization: Took **complete ownership** of building the **entire automation framework from scratch**, successfully delivering **three major modules in a short span**. Wrote **custom helper methods and generic functions** to optimize test execution, reduce redundancy, and enhance reusability.

Hybrid App Testing (Flutter & WebView): Automated **Flutter hybrid applications (Native + WebView)** by implementing seamless **context-switching methods**. Guided the team in writing optimal test scripts, transitioning them from **manual to automation testing** by mentoring in best practices.

CI/CD & DevOps: Integrated **Jenkins & Docker pipelines** into the automation framework, enabling **faster test execution and continuous integration**. Worked with **Kubernetes and CI/CD pipelines**, writing optimized pipeline code for **Git jobs**, improving automation workflows.

Web Automation: Automated **critical HRMS configurations and settings** using **Selenium WebDriver**, improving the scalability of web automation.

🚀 Key Achievements:

- ✓ Built a **unified framework** from scratch, completing **3 modules in record time**.
- ✓ Reduced **80% manual testing** through test automation.
- ✓ Mentored the team, **transitioning them from manual to automation testing**.

Product Development Intern, *Darwinbox*

Jan 2023- Jun 2023 | Hyderabad, India

Flutter Automation: Built **Flutter automation pipelines** to ensure seamless test execution for **Flutter-based mobile apps**. Automated over 300+ test cases, significantly improving the test cycle for new releases.

Web Automation: Automated web-based modules for core HRMS features using **Selenium**, improving test efficiency and reducing manual regression testing efforts by 70%.

API & Payload Automation: Automated API tests for key HRMS functionalities, validating payloads, headers, and response status codes. Stored critical test data in **Excel sheets** for future analysis and documentation.

CI/CD Integration: Set up Jenkins pipelines integrated with **Docker** to automate mobile and web test runs, reducing deployment time by 50%.

TECHNICAL SKILLS

Automation Tools: Appium, Selenium WebDriver, TestNG, JUnit, Rest-Assured, Flutter Test Automation, XCUITest

Mobile Automation: iOS, Android, Flutter (Appium, Flutter Testing), Playwright, PyTest

API Testing: Postman, REST Assured, Swagger

CI/CD: Jenkins, Docker, GitLab CI, Kubernetes, Prometheus and Grafana

Languages: Java, Python, JavaScript, TypeScript, SQL, Dart

Development: Node.js, PHP, MongoDB, MySQL, RESTful APIs, Flutter

Containerization: Docker, Kubernetes,

Cloud Platforms: AWS (EC2, S3, Lambda),

Test Management Tools: JIRA, Maven, IntelliJ, Eclipse

Performance Testing: JMeter,

Others: Data Structures, Algorithms, OOPs

RESEARCH ARTICLE

Criminal Face Detection System , [Research Square](#)

- Led the development and authored an article on a Criminal Face Detection System, collaborating with a skilled team on technical aspects.

AWARDS & RECOGNITIONS

- **2nd Prize, Code Innovative Series** by **IncuabeInd** in collaboration with **GitHub**; received a letter of appreciation and a student kit.
- Honorable Mention, All India Essay Writing Event by **Shree Ram Chandra Mission** (SRCM) and UNIC.
- Certificate of Excellence, Software Development Virtual Experience by **Quollab**.
- **2nd Prize**, Chess Competition during High School.

CERTIFICATIONS

- **Talent Next Course on Java J2EE** , [Wipro](#) May 2022 - September 2022
- **AI-For-India Event** , [Guvi Geek Networks](#) April 2021

EDUCATION

Vardhaman College of Engineering, Hyderabad 06/2019 - 05/2023 | Hyderabad, India
Bachelor of Technology in Information Technology
CGPA : 8.0/10.0

PROJECTS

HRMS Mobile & Web Automation Framework

- **Objective:**Designed and implemented a **scalable, data-driven automation framework** for HRMS, integrating **Appium, Selenium, and Flutter Test Automation** for seamless mobile and web testing. Leveraged **POM (Page Object Model), BDD (Behavior-Driven Development), and Navigation Flow Approach** to improve test structure, reusability, and maintainability.
Impact:
 - ✓ Automated **3,800+ test cases** across **iOS, Android, and web platforms**, reducing manual effort by **80%**.
 - ✓ Enhanced test coverage for **critical HRMS modules**, including:
 - **Recognition Vibe: 800+ test cases**
 - **Expense Reimbursement: 1,200+ test cases**
 - **Profile Management: 1,800-2,000 test cases**
 - ✓ Achieved **cross-platform compatibility** and **CI/CD integration**, ensuring efficient test execution and deployment.
 - ✓ Mentored and guided the team in adopting automation, helping them transition from **manual to automated testing**.
 - **Technologies Used: Appium, Java, Selenium WebDriver, Jenkins, Docker, Flutter Testing, TestNG, Cucumber (BDD).**

API Payload Automation & Data Storage

- **Objective:**Developed a **comprehensive API testing framework** with **dynamic payload validation and structured data storage** for HRMS modules. Integrated a **data-driven approach** to manage test data efficiently in **Excel sheets** for audit and reporting purposes.
Impact:
 - ✓ Automated **end-to-end API validation**, ensuring accurate request-response handling.
 - ✓ Reduced **manual API validation effort** and improved **backend test coverage**.
 - ✓ Provided **faster debugging and real-time API monitoring**, improving system reliability.
 - **Technologies Used: REST Assured, Postman, Java, Excel Automation, Spring Boot.**

Cross-Platform Test Automation

- **Objective:** Developed cross-platform mobile test cases for **iOS** and **Android** using **Appium**, ensuring seamless execution across different devices.
- **Impact:** Reduced test execution time by 40% and increased device coverage for mobile apps.
- **Technologies Used:** Appium, TestNG, Jenkins.

Flutter App Automation

- **Objective:** Introduced **Flutter automation** for testing core modules of a mobile app, ensuring integration with **Jenkins** and **Docker** for automated execution.
- **Impact:** Successfully integrated **Flutter automation** in CI/CD pipeline, automating key features like onboarding, profile management, and feedback workflows.
- **Technologies Used:** Flutter, Jenkins, Docker, GitLab CI.