

BHARATH REDDY GAJULAPALLI

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SUMMARY

Results-driven Senior SDET / Lead Engineer Automation Quality with 13+ years of experience in designing, developing, and implementing robust test automation frameworks for Web, API, and Mobile applications. Proven expertise in Selenium, Rest Assured, Playwright, Java, JavaScript, Appium, and CI/CD pipelines. Adept at optimizing testing processes, achieving 40%+ efficiency gains through automation and continuous integration improvements. Experienced in Agile/Scrum methodologies and leading cross-functional teams to deliver high-quality software for clients including Empower and the Florida State Government. Passionate about leveraging AI tools to enhance automation effectiveness and enable next-generation intelligent testing solutions.

TECHNICAL SKILLS

- Testing Frameworks: Selenium, Rest Assured, Playwright, Appium, IBM RFT, WebDriverIO
 - Programming & Scripting: Java, JavaScript, Python, SQL
 - Automation Frameworks: TestNG, Cucumber (BDD/TDD), Hybrid & Data-Driven
 - Agile & DevOps: Agile/Scrum, TDD, BDD, In-Sprint Automation
 - API Testing: Rest Assured, Karate BDD, Postman, Hopscotch
 - CI/CD Tools: Jenkins, GitLab CI/CD
 - Cloud & Databases: Windows 365, AWS Workspace, Oracle 12c, Citrix, Docker, SQL
 - AI & Generative Tools: GitHub Copilot, ChatGPT (4.0/5.0), Claude 3 / Sonnet 4, Gemini 2.5 Pro, o3-mini
 - Performance & Accessibility: LoadRunner, JMeter, axe-core (WCAG Compliance)
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PROFESSIONAL EXPERIENCE

Lead Engineer Automation Quality | Empower (Great-West Global Business Services Pvt. Ltd.)

July 2018 – Present | Bangalore, India

- Lead end-to-end testing for complex Web, API, and Mobile applications, ensuring comprehensive test coverage and high-quality delivery.
- Develop and maintain automation frameworks and test scripts using Selenium WebDriver, Rest Assured, Java, JavaScript, Python, Appium, and AuraPlayer.
- Maintain and enhance Empower Test Automation Frameworks supporting TDD, BDD, and coverage for Web UI, API, Mobile, and batch applications.
- Collaborate with development teams to shift testing left, improving early defect detection and continuous feedback loops.
- Utilize AssertThat Jira plugin to manage and organize BDD feature files within Jira.
- Perform defect triage, reporting, and analysis, ensuring timely resolution and transparent communication.

- Possess knowledge of Performance Testing (LoadRunner, JMeter) and Accessibility Testing (axe-core) for WCAG compliance.
- Deliver within Agile (Scrum) and Full Stack development environments, ensuring quality throughout the SDLC.

Key Achievements & Contributions

- **Empowered Test Automation Certification (ETAC) Program:**
 - Played a key role in the ETAC initiative, helping train 220+ full-time employees and currently extending the program to 200+ contractors on advanced test automation practices.
 - Led end-to-end program activities, including planning, curriculum design, assessment creation, evaluation, and results communication.
 - Provided continued mentorship and support to scale automation maturity across QA teams.
- **Hybrid Safe Delivery Model (HSDM) Program:**
 - Trained and mentored team members and achievers on BDD practices, Agile methodologies, flagging mechanisms, and in-sprint automation initiatives.
 - Planned, designed, and executed enablement workshops and assessments, institutionalizing BDD and continuous testing practices across multiple value streams.
 - Collected and analyzed automation efficiency metrics (execution success rate, defect leakage, in-sprint KPIs), delivering insights to leadership to drive quality predictability and process improvement.
- Reduced regression cycle time by 80% through implementation of a BDD Cucumber–Hybrid framework for Web and API automation.
- Developed robust, reusable, and maintainable automation scripts using Selenium, Rest Assured, and Java.
- Optimized CI/CD pipelines in Jenkins, automating nightly regression runs and improving early defect visibility.
- Managed Selenium Grid and VM infrastructure, ensuring secure and stable automation environments.
- Supported migration from Zephyr Squad to Zephyr Enterprise, improving test management, traceability, and reporting efficiency.

AI in Test Automation – Research & Implementation

- Evaluating Generative AI tools such as GitHub Copilot, Claude 3, and ChatGPT to enhance automation design, development, and maintenance efficiency.
- Conducting proofs of concept (POCs) integrating AI-assisted code generation into existing frameworks, with early results showing ~35% reduction in script development time.
- Leveraging IDE-level Copilot and ChatGPT-based test data generation to reduce manual effort across Web, API, and Mobile testing.
- Researching and experimenting with Agentic AI models for autonomous end-to-end test automation, targeting up to 80% reduction in overall script development time and overall testing efforts.
- Collaborating with architecture and quality teams to define AI adoption strategy and best practices, with ongoing research expected to yield measurable productivity gains.

Senior Software Analyst | Xerox Business Services Pvt. Ltd.

February 2012 – July 2018 | Bangalore, India

- Designed and implemented scalable keyword-driven and hybrid automation frameworks using Selenium, Java, and TestNG, integrating API automation (Rest Assured) and parallel execution to enhance release efficiency.
 - Led automation feasibility analysis, identified test candidates, and managed VM-based execution environments for reliable delivery cycles.
 - Measured and reported automation ROI and efficiency metrics to leadership, demonstrating tangible quality and productivity improvements.
 - Developed and executed automation test scripts for web and mobile applications, ensuring cross-browser and device compatibility.
 - Collaborated closely with development teams to identify, triage, and resolve defects early in the lifecycle.
 - Provided technical mentorship to junior team members on framework design and best practices.
 - Contributed to multiple successful deliveries and gained domain expertise in transportation systems.
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PROJECTS

✅ Plan Service Centre (*Empower*)

- Tools & Technologies: Selenium, Rest Assured, Java, JavaScript, Jira, TestNG, Karate BDD, Jenkins
- Description: A record-keeping application for Plan administration used by Plan sponsors and Third-party administrators.
- Key Contributions:
 - Maintained and enhanced the Hybrid automation framework using Selenium WebDriver, TestNG, and Apache POI.
 - Created and executed test scripts for Web and Mobile applications.
 - Implemented cross-browser compatibility testing, parallel execution, and API integration using REST web services.
 - Automated test execution via Jenkins for scheduled regression runs.

✅ RTD Denver (*Denver Transport Dept.*)

- Tools & Technologies: Selenium, Rest Assured, Java, Jira, TestNG
- Description: RTD Denver's public-facing portal for Smart Card Media program.
- Key Contributions:
 - Designed test plans, developed automation test scripts, and executed test cases.
 - Managed the test team, ensuring timely project deliveries.

✓ **Women, Infants, and Children (WIC) (*NYWIC, TNWIC, NHWIC*)**

- Tools & Technologies: Selenium, Rest Assured, Java, Jira, TestNG
- Description: WIC Cardholder and Vendor Portal applications to manage government benefits.
- Key Contributions:
 - Maintained the Hybrid framework and developed automation test scripts.
 - Led test execution management for on-time release delivery.

✓ **Life@Work (*Dominos, Fiserv, Honeywell, Newell*)**

- Tools & Technologies: Selenium, Java, Jira, TestNG
- Description: Life@Work portal solution integrating HR data and employee wellness information.
- Key Contributions:
 - Developed and executed test scripts for portal applications.
 - Managed the test team, ensuring smooth and timely release cycles.

✓ **MDTA Tolling (*Maryland Transportation Authority*)**

- Tools & Technologies: Selenium, Java, Jira, Jama, SQL
- Key Contributions:
 - Created a program-level test plan and developed batch files for TPMS operations.
 - Maintained the Hybrid framework and executed test cases.
 - Managed test execution and ensured timely release delivery.

✓ **Florida Tolling Vector 4G (*Florida State Govt.*)**

- Tools & Technologies: Selenium, Java, Jira, Jama, SQL
- Key Contributions:
 - Created a program-level test plan, executed test cases, and generated custom reports.
 - Maintained the Hybrid framework and managed test execution for timely releases.

EDUCATION

Master of Technology (M.Tech) – Computer Science & Engineering
Jawaharlal Nehru Technological University (JNTU) | 2013