Dibya Jouti Garigabilli

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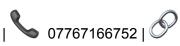

Professional Summary

Experienced QA and Automation Engineer with 9+ years of hands-on expertise in building robust QA functions and test automation frameworks from the ground up. Proven success in fast-paced, regulated environments, delivering scalable solutions using Cypress, Selenium, JavaScript, Java, and TypeScript. Recognised as a Subject Matter Expert (SME) in testing strategy and quality governance, with a strong record of leading cross-functional Agile teams and mentoring engineers. Adept at testing modern web applications built with React, NestJS, and Vite, covering UI behaviour, API integrations, accessibility, and build validation. Skilled in CI/CD integration using Jenkins and GitHub, driving quality across the full SDLC. A proactive self-starter with strong stakeholder engagement and the ability to shape QA direction in tech-driven organisations.

Professional Experience

Test Automation Engineer Lead - Wipro Technologies   *July 2021 – Aug 2024*
Client - Lloyd's Bank - London, UK

- **Delivered 80% test automation coverage**, slashing manual testing time by **60%** and significantly improving product reliability for **highly complex banking applications**.
- Architected and implemented a scalable BDD automation framework in Typescript and JavaScript using Cypress and playwright, enabling business-readable tests for critical Payments and Statements workflows (e.g., direct debits, loans, overdrafts, transfers, statements). Improved test coverage and reduced regression and post-release **defects by 40%**.
- Recognised as a Subject Matter Expert (SME) in test automation and quality standards, driving organisation-wide adoption of modern testing practices, defining reusable frameworks, and ensuring adherence to industry-aligned test governance principles across multiple agile squads.
- Developed JavaScript/Selenium frameworks integrated with Jenkins and GitHub CI/CD to accelerate delivery and ensure compliance.
- **Led cross-functional collaboration**, translating technical outcomes and regulatory requirements into actionable insights for stakeholders, driving informed decision-making.
- Led QA strategy during stakeholder and sprint review meetings, translating business requirements into actionable test plans, driving risk mitigation efforts, and ensuring high-quality, timely software delivery across cross-functional teams.
- **Mentored and upskilled 5+ engineers,** driving a **high-performance test culture**
- Initiated shift-left testing practices by integrating **DAST with Burp Suite and agile BDD**, detecting security vulnerabilities 20% earlier; conducted Burp Suite demos and promoted best practices across teams. Also specialised in **Accessibility Testing (NVDA, JAWS, aXe)**, embedding inclusive design validation into Agile workflows.
- Led defect triage meetings , analyzing root causes and working closely with developers to resolve issues promptly.

Senior Quality Engineer-Wipro Technologies   *July 2015 – July 2021*
Client - Lloyd's Bank / Walmart - Bangalore, India

- Performed comprehensive **manual testing** of web and backend applications, validating business workflows and ensuring alignment with functional requirements in banking and retail domains.
- **Developed and maintained** an advanced **Page Object Model (POM) test automation framework** in **Selenium with Java and JUnit**, enhancing maintainability and scalability of test scripts.
- Tested applications built with **React**, **NestJS**, and **Vite**, focusing on dynamic UI behavior, API validation, accessibility, and build performance; automated backend API testing integrated with **Jenkins CI**, enhancing pipeline reliability and reducing deployment errors by **5%**.
- Managed test data creation using **ALM and JIRA**, ensuring thorough documentation and traceability, and handled environment setup for testing; authored and managed test cases, validated financial reports and reconciliations,
- Conducted comprehensive database testing by writing and executing **SQL** queries to ensure data integrity, accurate transactions, and reliable backend processing
- Conducted thorough testing across multiple environments including **SIT, UAT, and production**, ensuring environment-specific validation and issue replication.
- **Enhanced test execution efficiency** by implementing best practices in **test case optimisation, defect management, and automation strategy**.

Education

- **University of Exeter –** MSc Financial Technology 2024 -   2025
  Global Excellence Scholarship Recipient (£7500)
- **Birla Institute of Technology & Science –** MTech Information Technology 2015 -   2019
- **Gayatri Vidya Parishad –** BSc Computer Science 2012 -   2015

Tools & Tech Stack:

Automation & Optimisation: Python Scripting, SQL, Selenium WebDriver (Java), Cypress (JavaScript), Cucumber BDD, Gherkin, API Testing (Postman, **Rest Assured**), Workflow Automation, CI/CD Pipelines.

Machine Learning & Predictive Modeling: Scikit-learn, Regression Analysis, Forecasting.

Database Management: SQL, Data Extraction & Transformation

Testing & Quality Engineering: Manual & Automated Testing, Cypress(JavaScript), Selenium(Java), Playwright, SauceLabs, TestNG, DAST Security Testing (Burp Suite), Accessibility Testing (WAVE, aXe), Test Case Design, TypeScript

Financial Technology & FinTech Expertise: Advanced Financial Technology, Banking & Financial Services, Digital Transformation & Innovation Management, Risk Management Strategies, Regulatory Compliance

Project Management & Processes: Agile Scrum Participation, JIRA, Confluence, Software Development Life Cycle (SDLC), Test Automation, Incident Management, Release Management, Cross-functional Collaboration

Soft Skills: Data-driven Decision-making, Leadership, Problem-solving, Mentoring, Stakeholder engagement, Time management

Languages: English, Hindi, Bengali, Telugu

Certifications, Achievements & Leadership

Certifications

- **Google Data Analytics Certification**
- **Microsoft Certified: Azure Fundamentals**
- **Google Cloud GenAI-L1**

Certification Achievements

- **Lloyds Banking Project Recognition** – Developed a data-driven framework to enhance process efficiency.
- **Won the 2023 Best Use of AI/Automation in Security Excellence Award** for Wipro in collaboration with Lloyds Bank, recognising innovative automation in security testing.
- **Speaker/Participant at the National Software Testing Conference 2023** – Contributed to discussions on **Sustainability in Quality Engineering** at **31 Media TEST Magazine's** flagship event.
- **Global Excellence Scholarship, University of Exeter (£7500) Leadership & Extracurricular Activities**