

Braj Patel

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PROFILE SUMMARY

Results-oriented **Software Development Engineer in Test (SDET)** with over **4.5 years of experience** in designing, building, and maintaining scalable automation frameworks for both **web and mobile platforms**. Proficient in **Selenium, Appium, SpecFlow (BDD)**, and **modern CI/CD pipelines** using **Azure DevOps**. Demonstrated success in achieving **80%+ UI automation coverage**, optimizing **backend/API validations** across **Azure Microservices**, and integrating **automated reporting and stakeholder communication**. Strong foundation in **object-oriented programming**, test framework architecture, and **Agile/Scrum** practices. Proven ability to accelerate release cycles, reduce manual efforts, and drive high-quality software delivery in complex, microservices-based environments.

PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES

Software Development Engineer In Test(Royal Mail)

London, United Kingdom

Nov 2020 - Present

- Designed and implemented a scalable **BDD** test automation framework using **SpecFlow (Reqnroll)**, **NUnit**, and improved test maintainability and reduced onboarding time for new testers by **30%**.
- Automated over **300+** test cases for web and Android mobile applications using **Selenium WebDriver (C#)** and **Appium**, achieving **80%+** UI test coverage and accelerating regression testing cycles.
- Engineered modular and reusable components based on **OOP principles**, enhancing framework adaptability across multiple **microservices-based projects**.
- Developed a backend automation layer to validate business logic across **Azure Microservices**, leveraging **RestSharp** and Azure SDKs to ensure data consistency and improve defect detection rate by **35%**.
- Integrated test execution reporting via **HTML-based reports** and automated email delivery using **SMTP**, enabling stakeholders to receive timely and formatted test summaries after each run.
- Created a seamless integration between automation scripts and **Azure DevOps (ADO)** using Open APIs and PAT tokens, enabling dynamic mapping of scenarios to test cases and real-time status updates in **ADO Test Plans**.
- Collaborated with DevOps teams to configure **CI/CD pipelines** in **Azure Pipelines**, reducing manual execution effort by **70%** and ensuring test automation was triggered on every deployment.
- Pulled environment-specific test variables dynamically from **Azure DevOps** test cases, reducing maintenance overhead and enhancing testing flexibility across different configurations.
- Developed and executed integration test suites in **ReadyAPI** using **Groovy** scripting to validate complex API workflows across microservices, automating **end-to-end** data flow verification and reducing manual integration testing time by **60%**.

SKILLS

- **Programming Languages:** C#, SQL, Python
- **Automation Tools & Frameworks:** Selenium WebDriver, Appium, NUnit, SpecFlow(Reqnroll)
- **API Testing Tools:** RestSharp, Postman
- **Test Framework Design:** BDD (Behavior Driven Development), Data-Driven Testing, OOP (Object-Oriented Programming) principles,
- **Version Control:** Git, Azure Repos
- **CI/CD & DevOps:** Azure DevOps, Azure Pipelines, CI/CD implementation, Jenkins
- **Cloud & Microservices:** Azure Microservices, Azure Open APIs
- **Test Reporting & Communication:** HTML Reports, Email Integration via SMTP
- **Testing Types:** UI Automation (Web & Mobile), API Testing, Backend Validation, Integration Testing
- **Project/Task Management:** Azure Boards, Test Plan/Test Suite Integration
- **Others:** Agile/Scrum methodologies, PAT token usage, Test Result Mapping to ADO Work Items

CERTIFICATIONS & ACHIEVEMENTS

- **Certifications:** Microsoft Azure Developer Associate(**AZ-204**) - Ongoing, Gold Badge in Python on HackerRank.
- **Achievements:** Recognized for contributions to high-profile projects, including secure locker and tracking systems; Special Initiative Award for TechVantage Initiative - Top 10 Coders at TCS
- Completed 400+ coding challenges on platforms like **LeetCode**, **HackerRank**, and **CodeChef**, showcasing a systematic approach to algorithm design.

EDUCATION

MADAN MOHAN MALVIYA UNIVERSITY OF TECHNOLOGY

2016 - 2020

Bachelor of Technology

- Key Subjects: **Data Structures**, **Algorithms**, Operating Systems, **Database**, Programming Languages