Dheerendra Singh Pal

Pune, India

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TECHNICAL SKILLS

- **Programming Languages:** Java, Python
- **Automation tools & Libraries:** Selenium WebDriver, Appium, RestAssured, Playwright, TestNg, Junit, Cucumber, Postman, Newman, Insomnia
- **Performance Tool:** JMeter, BlazeMeter

- **Database:** SQL, Postgres
- **Tools:** Git, GitLab, Bitbucket, SVN, Rally, Jira, VSTS, Maven
- **CI/CD & Cloud:** Jenkins, PCF, Azure, AWS, Docker
- **Methodology:** Agile, Kanban

Experience

Senior software engineer | Mastercard | (06/2022 - present)
- Led cross-functional team of 8 SDETs in executing complex projects involving web and Android applications; enhanced automated testing coverage by 50% and reduced manual testing time by 90 hours per regression cycle.
- Developing and enhancing automation frameworks. Set in sprint test automation process for APIs which helped to reduce defects and execution time in system integration testing by 50%.
- Orchestrated comprehensive stakeholder engagement across 5 departments, enhancing product quality by 25%; led resource forecasting and talent acquisition, securing 7 top-tier professionals, increasing team capability by 35%.

Staff Engineer | Altimetrik | (03/2021 - 06/2022)
- Worked for Mastercard as contingent worker.
- Automated test cases for web, mobile and APIs. Built CI/CD pipeline which helped to execute test suites over nightly to save 70% execution time during regression cycle.
- Test planning and preparation. Defect triage and defect prioritization. Regression, Smoke, Sanity test planning and execution.
- SIT planning, UAT planning, test exit report.

Senior Software Engineer | Collabera | (06/2020 - 03/2021)
- Worked for Mastercard as contingent worker.
- Automated web and API test cases to improve coverage and efficiency across multiple modules.
- Planned and executed 5 consecutive release cycles, delivering 20% more features and content while reducing bugs by 30%.
- Designed and maintained 1000+ comprehensive test cases, ensuring high-quality, reliable, and polished product functionality.

QA Analyst | Expleo | (09/2018 - 04/2020)
- Engineered automation frameworks from scratch for both web and mobile platforms.
- Developed and maintained automated test scripts using Java, Selenium, and TestNG, reducing manual testing efforts by 50%.
- Enhanced automation framework for re-running failed scenarios, saving the team 20 hours daily in re-executions and reporting.

Analyst | Concentrix | (10/2014 - 07/2017)
- Designed and performed comprehensive manual and automated test cases based on requirements and user stories for web applications.
- Conducted functional, regression, and UI testing for web applications.
- Logged and tracked defects using bug-tracking tools, ensuring timely resolution.

EDUCATION

- **University of Pune | MCA (Master of computer application) |** Pune, India
- **CSJM University | BCA (Bachelor of computer application) |** Kanpur, India

PROJECTS

1. **Real Time Payments**
   - Developed and executed out automation framework for functional, API, and end-to-end testing of high-volume real-time payment transactions.
   - Built CI/CD integrated regression suites and performance tests ensuring sub-second response times and system resilience.
   - Ensured compliance with ISO 20022 standards, security protocols, and high-availability requirements for instant payment processing.

2. **Farm Pass (Mastercard Farmer Network)**
   - The Farm Pass is a digital platform that streamlines the procurement of agricultural produce by connecting buyers directly with farmers through a reliable network of field agents and suppliers. Application has active 12.5K+ users and 6+ million farmers.
   - The platform enables farmers to receive payments directly to their bank, mobile, or UPI accounts and provides them with short-term financial aid for farming needs. Processed $3.5 million in digital transactions and $18 million in cash transactions on the platform this year.
   - Oversaw product quality and managed payment gateways for web and mobile applications, ensuring seamless digital transactions. Achieved a 30% increase in customer adoption of digital payments this year.
   - Conducted comprehensive performance testing on high traffic application, identifying critical bottlenecks that improved response time by 20% under peak load conditions. Which ensures the reliability and sustainability of applications.

3. **Mecca CMS (Rank Group)**
   - Engineered a robust BDD-based test automation framework using Java, Selenium, Cucumber, Maven, Appium, TestNG. That reduced manual execution time by 50% and improved overall test coverage by 30-35%.
   - Analyzed regression test scenarios for automation, creating feature files, and implementing automated solutions.
   - Developed and implemented mobile automation scripts for cross-functional devices, including Android and iPhone.

4. **Mecca Think-Finance (Sunny Loans)**
   - Developed and implemented a BDD test automation framework using Cucumber with Page Object Model (POM) for web application workflows.
   - Automated regression suites to validate credit checks, loan approvals, and payment schedules, improving test efficiency.
   - Carried out specialized scenarios including time travel, payment collection, cronjob, and rollback testing to ensure system reliability.