Shubham Gupta

Software Development Engineer in Test (SDET)

Experienced SDET with 7 years of expertise in developing and implementing comprehensive test automation solutions. Proven ability to improve test coverage and reduce release cycles. Proficient in automation for web, mobile and database platforms. MS in Computer Science, enabling a deep understanding of software development lifecycle and quality assurance best practices.

WORK EXPERIENCE

SDET   July 2022 – Present
Meta Platforms (Facebook), Menlo Park, CA

- **Led successful onboarding of multiple Facebook App teams to E2E automation** using the Jest framework, significantly improving testing efficiency.
- **Accelerated automation progress** by developing essential data builders, resolving critical framework issues, and creating robust E2E tests.
- **Empowered the QA team by building tooling** that enables on-demand automation execution of e2e tests directly from the manual test case tool, saving 25% offshore opex budget for QA vendors.
- **Pioneered the integration of Gen-AI into the QA tool**, automating the generation of manual test cases from project requirement/test strategy documents, resulting in a 30% reduction in manual effort.

SDET   Feb 2021 – June 2022
Amazon, Sunnyvale, CA

- **Owned the maintenance and improvement of automation framework** for multimedia team, which is responsible for testing echo, alexa and fire tv devices.
- Unblocked automation for QA members by **adding APIs for new testing scenarios in framework and tooling support**, enabling faster automation onboarding for new devices.
- Built **device watcher notification service** that gives near real time alerts for physical test device health status, enabling faster maintenance of 100 plus devices.

Software Engineer   July 2020 – Feb 2021
Vertica Systems, Cambridge, MA

- As a part of the Query Optimizer team, **working on parse tree enhancements and intelligent query optimizations**.
- Fixed **de-parsing logic which unblocked adding complex data types** such as structs, arrays & maps in Vertica Tables.
- **Added Zstd compression in Vertica DB columns** saving almost **30% storage** for suitable use cases

SDET/QA   July 2015 – June 2018
S&P Global, Gurugram, India

- Performed **end to end data testing** of Ratings data using various ETL and DB tools (SQL Server, Oracle).
- **Automated 60% of data quality checks** consisting of records ranging from 10-70 million by using SSIS packages and SQL agent job.
- **Done automation of 25% regression cases** of Ratings Direct web portal using Selenium/Kosher framework.

CONTACT

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- LinkedIn
- Website

SKILLS

Programing Languages:
- C/C++
- Python
- Hack/Php
- JavaScript

Automation & Test tools:
- Pytest
- Jest-e2e
- Gtest
- Selenium
- CI/CD (Jenkins, GitHub Actions)

Others:
- DB (MySQL, Oracle, Hive)
- Version Control (Git, Mercurial)
- Bug tools (JIRA, TFS)
- Agile/Scrum Methodologies

EDUCATION

Arizona State University
Ira A. Fulton Schools of Engineering - Tempe, AZ
M.S. Computer Science,
May 2020, GPA: 3.97

VIT University
Vellore Institute of Technology - Vellore, TN
B. Tech. Information Technology,
May 2015, CGPA: 8.73

OTHER

- Awarded bronze Ace awards in categories of Drive Performance & Elevate People in S&P Global
- Was amongst the top 10 coders in the Code Fu Hustle event organized by Cerner India in VIT.