

SANDEEP SOMA

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Professional Summary

SDET with around **3 years of experience** driving quality engineering and building **scalable automation solutions** for fast-paced product environments. Designed and implemented **frameworks that reduced regression cycles by 60%** and **led AI-driven testing initiatives** that improved **defect detection by 25%**. Passionate about **shift-left testing**, **CI/CD integration**, and developing **intelligent tools** that enhance productivity and empower development teams to deliver with confidence and speed.

Technical Skills

Programming Languages: Java, Python, JavaScript

Automation & Testing Tools: Selenium, Cucumber, TestNG, Postman, Rest Assured, Perfecto (Mobile Testing), JMeter

Frameworks: Spring Boot

Software Development Concepts: OOPs, STLC, SDLC, Agile & Scrum

CI/CD & DevOps Tools: Jenkins, Git, GitHub, GitHub Actions, Azure DevOps

Cloud & Databases: Azure Cloud, Google Cloud, MySQL

Test Management & Reporting Tools: Qtest, Jira

Work Experience

Accenture – Hyderabad, India

Custom Software Engineering Analyst (SDET) | December 2022 - Present

- Built scalable test automation frameworks with CI/CD integration, improving quality, coverage, and delivery efficiency across web, mobile, and API platforms.
- Engineered robust automation frameworks (BDD & non-BDD) using Java, Selenium, TestNG, and Cucumber, improving test coverage by 40% and reducing maintenance effort by 30%.**
- Built and maintained **200+ automated test cases across Web (Selenium), Mobile (Perfecto), REST APIs, UI, and Analytics**, achieving >98% automation coverage and 60% reduction in regression cycle time.
- Drove quality through **5000+ test executions across 13+ releases, identifying and triaging 150+ critical defects pre-production**, improving release stability by 20%.
- Designed data-driven test cases** aligned with user stories and acceptance criteria, increasing feature validation accuracy and early defect detection.
- Designed and executed comprehensive test strategies including functional, regression, smoke, integration, and API contract testing across multiple environments (QA, Staging, Production).
- Validated complex workflows and component integrations within **Adobe Experience Manager (AEM)** applications, ensuring seamless end-to-end functionality.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions**, reducing manual effort by ~30% and improving consistency and reliability.
- Automated test lifecycle management by **integrating test frameworks with Qtest and Jira via APIs**, enabling real-time execution tracking, automated defect logging, and comprehensive quality reporting.
- Contributed to the Implementation of **Generative AI-driven solutions for defect prediction, intelligent test case generation, and duplicate detection**, enhancing testing efficiency and coverage accuracy by 25%.
- Partnered with Developers and DevOps teams to implement **shift-left and continuous testing practices**, integrating automated QA pipelines within the CI/CD process and reducing post-release defects by 20%.
- Mentored 3 associate engineers** on automation framework development and testing best practices, conducting regular code reviews and knowledge-sharing sessions to elevate team capabilities.
- Recognized by stakeholders for **technical innovation and automation excellence, earning multiple project awards** including ACE Award (FY24 Q3).

Key Projects & Internal Tools developed

Universal Code Migration Tool:

- Architected Python-based CI/CD utility automating Git branch migrations across 7+ repositories, reducing migration time from 40 minutes to ~14 seconds per branch (90% efficiency gain) and eliminating manual merge conflicts.

Test Evidence Generator:

- Developed Python automation tool integrating Perfecto manual screenshots into test documentation workflow, saving ~15 mins/test case and improving audit compliance by 100%.

Education

Vasavi College of Engineering, Hyderabad, Telangana

Bachelor of Engineering – Mechanical Engineering | July 2022

CGPA: 8.33 / 10

- Relevant Coursework: Python Programming, Database Management Systems, Web Design, Critical Thinking.

Personal Projects

- **Java Selenium POM Framework** — (*Java, Selenium, TestNG, Extent Reports*)
Built a Selenium Automation Framework using the Page Object Model (POM) approach to enhance code reusability and maintainability. Integrated with TestNG for parallel execution and Extent Reports for detailed test analytics.
[GitHub](#)
- **Spring Boot CRUD API (User Management Tool)** — (*Java, Spring Boot, Thymeleaf, Bootstrap, MySQL*)
Developed a Spring Boot application for performing CRUD operations using RESTful APIs and integrated front-end using Thymeleaf.
[GitHub](#)
- **Portfolio Website** — (*HTML, CSS, JavaScript*)
Built and deployed a fully responsive personal portfolio website showcasing skills and projects.
[GitHub](#) | [Live Demo](#)
- **Currency Exchange & Cryptocurrency Tracker App** — (*HTML, CSS, JavaScript, API Integration*)
Built a web app to monitor real-time exchange rates and crypto values using live APIs.
[GitHub](#) | [Live Demo](#)
- **Product Web Scraping Tool** — (*Python, BeautifulSoup, Requests, Pandas, Excel*)
Developed a Python-based scraper to extract product data (name, price, rating, availability) and export to Excel for analytics.
[GitHub](#)
- **Tic Tac Toe Game** — (*HTML, CSS, JavaScript*)
Created and deployed a browser-based Tic Tac Toe game featuring interactive UI and responsive design.
[GitHub](#) | [Live Demo](#)

Certifications & Skill Badges

- Generative AI Mastermind – Outskill (Sep 2025)
- Google Cloud Certified – Associate Cloud Engineer (Apr 2025)
- Google Cloud Certified – Cloud Digital Leader (Apr 2025)
- Microsoft Certified – Azure Fundamentals (AZ-900) (Nov 2024)
- SC-900: Microsoft Security, Compliance, and Identity Fundamentals (Jun 2023)
- Automated Software Testing – Skillsoft (Feb 2023)
- Problem Solving – Hacker Rank (Oct 2021)

Achievements & Awards

- Accenture Excellence (ACE) Award – Team Category (FY24 Q3)
- Winner – GCP Accenture Premier League Contest (FY25)
- Tech Expressway Merit Holder – Techgenics Stream (FY23)
- CyberFest Recognition – 2023 & 2025 Editions
- Ranked 31st in ECET Entrance Examination, Telangana