

SANDEEP SOMA

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Professional Summary

Results-driven **SDET** with expertise in building scalable automation frameworks, integrating CI/CD pipelines, and implementing AI-driven QA solutions. Skilled in **Java, Python, Selenium, and Jenkins**, with a proven track record of improving test coverage by 40% and saving 60% manual effort through automation and intelligent tooling.

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 (Basics)

Cloud & Databases: Azure Cloud (Basics), Google Cloud, MySQL

Test Management & Reporting Tools: Qtest, Jira

Work Experience

Accenture – Hyderabad, India

Custom Software Engineering Analyst | December 2022 - Present

- Serving as **SDET for a US-based client**, engineering robust test automation frameworks, CI/CD integrations, and validation tools to improve quality, coverage, and delivery efficiency across 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%.**
- **Automated 200+ test cases** across **Web, Mobile, ADA, API, and Analytics**, reducing manual regression time by **60%** and enabling faster release cycles.
- **Executed 5000+ test cases** and identified **150+ high-impact defects**, directly improving product stability and release quality across multiple environments.
- **Designed data-driven test cases** aligned with user stories and acceptance criteria, increasing feature validation accuracy and early defect detection.
- Validated complex workflows and component integrations within **Adobe Experience Manager (AEM)** applications, ensuring seamless end-to-end functionality.
- **Developed internal QA tools using Python** — including:
 - **Universal Code Migration Tool:** Designed and developed a Python-based utility to automate repository branch migrations, completing each migration in ~14 seconds per branch and eliminating manual errors and reducing migration effort by **90%**.
 - **Test Evidence Generator:** Automated the manual screenshot attachment process by integrating captured images directly into test steps and generating test evidence documents, improving accuracy, traceability, and saving ~15 minutes per test case.
- **Implemented CI/CD pipelines using Jenkins and GitHub Actions**, reducing manual deployment effort by ~40% and improving release consistency and reliability.
- **Skilled in integrating automation workflows** with **Qtest and Jira**, enabling seamless test management, defect tracking, and 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 25%.
- **Led and mentored 3 Associate Engineers**, standardizing test automation practices and improving framework contribution velocity by **20%**.
- Recognized by stakeholders for **technical innovation, automation excellence, and delivery ownership**, contributing to multiple project awards.

Education

Vasavi College of Engineering, Hyderabad, Telangana

Bachelor of Engineering – Mechanical Engineering | July 2022

CGPA: 8.33 / 10

Personal Projects

- **Portfolio Website** — (*HTML, CSS, JavaScript*)
Built and deployed a fully responsive personal portfolio website showcasing skills and projects.
[GitHub](#) | [Live Demo](#)
- **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](#)
- **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.
[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](#)
- **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](#)

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