Santhosh Kumar K

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Skills

- **Test Automation:** Selenium (Java), Cucumber BDD, TestNG, Playwright, UiPath, Postman
- **Programming Languages:** Core Java, Python, HTML, and CSS
- **Version Control:** Git, GitHub
- **Build & CI/CD Tools**: Maven, Jenkins, Azure DevOps, GitHub Actions
- **Database**: MySQL, SQL Server

Experience

Programmer Analyst - Quality Engineering & Assurance   02/2023 − Current
Cognizant Technology Solutions   Chennai, India

- Forged and maintained five GenAI-powered utilities that achieved significant effort and cost savings, while actively contributing to hackathons, Bluebolt innovation projects, and GenAI-driven solution development.
- Built UiPath automation scripts for **UI and MySQL backend validation during client migration**, saving **1000+ hours** and **$20,000+ annually** across **350+ client executions.**
- Led end-to-end STLC for a critical feature migration, ensuring full coverage, risk mitigation, and defect-free delivery.
- Automated 90% of application test cases using Selenium, Java, Cucumber BDD, TestNG, and Maven within a keyword-driven framework, reducing manual effort for regression and sanity testing by integrating execution into the Azure DevOps pipeline.
- Independently automated a **Qlik report–based transport and logistics application**, reducing functional errors and eliminating data mismatches for clients.
- Delivered **proof-of-concepts and utilities** using UiPath, Playwright, VB Macros, and Generative AI tools to reduce manual effort and accelerate delivery timelines.
- Collaborated with cross-functional teams (Product, Development, QA) in an **Agile environment** to ensure high-quality and timely project delivery.

Java Full Stack Developer Intern   11/2022 − 02/2023
Integrin Enterprise Solutions   Coimbatore, India

- Developed and maintained full-stack applications using Moqui and Apache OFBiz, integrated the **Adobe Sign API to automate document signing workflows**, and collaborated in an Scrum environment to ensure timely feature delivery.

Education

SRM Institute of Science and Technology- Master of Computer Applications   12/2026
          Chennai, India
Nallamuthu Gounder Mahalingam College - Bachelor of Computer Applications   06/2022
          Coimbatore, India

Projects

BDD Automation Generator

- Designed a Python-based BDD Automation Generator that leverages Google's Gemini AI to automatically convert Acceptance criteria into comprehensive test cases and multi-language BDD automation frameworks, **reducing test automation setup time by 80%**.

Selenium + GenAI Analyzer

- Orchestrated a Java-based solution leveraging GenAI APIs to dissect Selenium test failures, delivering root cause analysis and remediation suggestions, **slashing debugging time by 30% and accelerating releases**.

Self-Healing Automation

- Integrated Healenium, an open-source self-healing tool, into the existing automation framework to automatically recover from broken web elements, reducing maintenance efforts by **20%.**

Certifications

- **GitHub Foundations | CERTIFICATE**
- **GitHub Copilot | CERTIFICATE**
- **Postman API Fundamentals Student Expert | CERTIFICATE**