

Lebenslauf

Karan Muthusamy

Test Automation Engineer

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Profile Link LinkedIn, Portfolio, GitHub
Visa Valid Work Permit Holder

Experience

02/2022 – 11/2023

Analyst II Software Engineer (Test Automation)

Tech Stack: Cypress, JavaScript, GitHub (Actions/CI), JIRA, Agile (Scrum), Healthcare IT (Cerner), SQL

- **Developed and maintained 120+ automated test scripts** using **Playwright (JavaScript)** for **Cerner Millennium applications**, integrated test suites into **GitHub Actions CI/CD** to enable continuous quality gates, **reducing manual regression** effort by **~15 hours per cycle** and **saving ~\$18,000 USD annually** through individual contribution, as part of a team repository of 400+ scripts improving overall test runtime efficiency by **25–30% per cycle**.
- **Executed functional, regression, and integration testing** for high-compliance US-market **healthcare software**, designed test cases based on complex clinical specifications for Cerner modules with **multiple User Personas**, validating critical **patient data flows** and **cross-module** synchronization, ensuring **100% defect traceability** in JIRA to meet strict medical data regulations and quality standards within an **Agile Scrum framework**.
- Conducted root-cause analysis (**RCA**) and **analyse test results** on **recurring defect** patterns across multiple releases; collaborated with **cross-functional teams (USA/India)** to refine test coverage, optimize regression suites, and drive measurable **continuous improvements** in release **stability** and **scalable test** process efficiency across time zones.

Education

01/2024 – 06/2025

MBA Engineering Management

IU International University, Berlin, Deutschland

06/2018 – 06/2022

B.Eng. Automobile Engineering

Anna University (Kumaraguru College of Technology), India

Technical Skills

Test Automation Cypress, Eggplant, Playwright, Cucumber, Gherkin/BDD, Mocha, AI-Driven Automation
Programming Languages JavaScript, TypeScript, Python, SenseTalk
Testing Methods End-to-End (E2E), API, Functional, Integration, Regression, UAT and UI Testing
Tools GitHub Actions, CI/CD, Jira, Postman, VS Code, Microsoft 365, Windows, Linux (Basic)
Processes Agile, Scrum, SDLC, STLC

Language

Deutsch B2 (In-Progress)

English C1

Tamil (Native)

Certification

ISTQB® Certified Tester Foundation Level – [Show Credential](#)

Berlin, 08/05/2026

