



KANNAN MUTHU MANICKAM
AI SOFTWARE ENGINEER
 Full Stack - Developer | Tester

[Birmingham, England, UK](#)
[+44 075030 44414](tel:+4407503044414)
mkannan007@outlook.com

<https://mkannan007.dev/>
<https://linkedin.com/in/mkannan007>
<https://github.com/mkannan007>

ABOUT ME

Strategic Software Engineer with 12+ years of IT experience, pivoting into AI-driven full stack WebApp development using (React JS & Next JS) with expertise in E2E test automation skills using TypeScript, and CI/CD workflows, with a strong track record in agile delivery with high-quality solutions.

CORE TECHNICAL SKILLS

- Front-End:** React JS, Next JS, Tailwind CSS, Figma (Basics)
- Back-End:** Next JS API, Express-JS (Rest-API), NodeJS
- Automation:** Playwright, WebDriver-IO, Cypress, Vitest (RTL)
- Languages:** TypeScript, JavaScript
- CI/CD:** GitLab, GitHub Actions, Azure DevOps
- Databases:** MongoDB, PostgreSQL (Basics)
- Cloud & Containers:** AWS, Azure & Docker (Basics)

AI TOOLS

- GitHub Copilot
- AWS-Q Developer
- Claude Gemini Copilot

DOCUMENT TOOLS

- Jira Confluence X-Ray

EDUCATION

- MCA** – Hindustan University, Chennai
- BSc Mathematics** – University of Madras

CERTIFICATION

- ISTQB Certified Tester** – Foundation Level

WORK EXPERIENCE

	BRITISH TELECOM GROUP PLC <i>AI Software Engineer & Test Automation (React)</i>	Birmingham & London, UK Sep 2024 – Present	Permanent
	MATCHES FASHION LTD <i>Software Engineer & Test Automation</i>	London, UK Mar 2020 – Mar 2024	Permanent
	PUBLICIS SAPIENT LTD <i>Test Automation Specialist</i>	London & Swindon, UK Jan 2019 – Feb 2020	Contract
	RENAULT NISSAN TECH <i>Senior Engineer</i>	Chennai, India Oct 2017 – Sep 2018	Permanent
	SQS INDIA BFSI LTD (Now EXPLEO) <i>Test Automation Engineer</i>	London, UK & Chennai Jan 2014 – Oct 2017	Permanent

CLIENTS AND SERVICES

- BRITISH TELECOM GROUP PLC** Birmingham & London, UK
 Project: Built React reusable components and automated the tests – web design system.
- MATCHES FASHION LTD, UK** London, UK
 Project: Led test automation and build software for e-commerce and internal applications.
- NATIONWIDE BUILDING SOCIETY** Swindon, UK (via Publicis Sapient)
 Project: Delivered Test Automated services for credit card workflows application.
- RENAULT** Paris, France (via Renault Nissan Tech)
 Project: Delivered Automation testing services for vehicle fleet logistics application.
- HISCOX** London, UK (via SQS BFSI Ltd)
 Project: Delivered Automation testing services for Home and Business Insurance platforms.

BUSINESS DOMAINS

- Telecom
- E-Commerce
- Banking
- Logistics
- Insurance

KEY RESPONSIBILITIES, CONTRIBUTIONS AND KNOWLEDGE

Front-End Development

- Developed production ready React applications using Next.js with SSR.
- Resolved UI bugs and maintained consistent styling using Tailwind CSS
- Boosted unit test coverage using Jest and React Testing Library.
- Publish and maintain NPM packages with reusable functions.

Back-End Development

- Built RESTful APIs using Next.js API Routes and Express.js.
- Designed DB schemas using MongoDB and Supabase (PostgreSQL).
- Implemented server-side logic including authentication, middleware, and data validation for secure and reliable endpoints.

CI/CD & monitoring

- Configured and maintained automated pipelines using GitLab CI, GitHub Actions, and Azure DevOps.
- Set up self-hosted runners to reduce cloud compute costs and improve pipeline control.
- Monitored test health and stability through Jenkins, scheduled cron jobs, and remote test suite execution.
- Architected scalable test suites adhering to clean code principles.

Test Automation

- Developed full-stack automation frameworks (UI/API/mobile) using Playwright, Cypress, WebDriver IO, Appium, and TypeScript.
- Authored E2E and BDD-Cucumber, Mocha based tests using JavaScript, TypeScript. Also experienced in Java and C# based tests
- Enhanced UI testability with data-test-id; executed API and cross-platform tests via Postman and Browser Stack, Sauce Labs for mobile.

Defect Management

- Logged & triaged defects using JIRA in collaboration with Agile teams till the closure and help in fixing the frontend bugs.

Agile Collaboration

- Key member in Scrum ceremonies, Sprint demos for feedback cycles.
- Mentored junior engineers and evaluated emerging tools and technologies through guild participation

Documentation

- Create and Maintained JIRA dashboards and documented project strategies, reports, and best practices in Confluence.