



SANJAY RAJA

OBJECTIVE

I am a Software Developer with almost 2 years of experience in web applications Development. My focus is on utilizing modern frameworks and Agile methodologies to deliver efficient, user-centric solutions. I am actively seeking new opportunities to leverage my skills and contribute to impactful and innovative projects.

PROJECTS

• Testing Automation tool

- **Objective:** Develop a web-based automation testing tool to streamline API, web, and mobile testing.
- **Solution:** Delivered a user-friendly tool with features like AI-driven test data generation, test case creation, API collection import, module execution, and detailed reporting.
- **Technologies:**
 - **Frontend:** Built responsive UI using React.js, Typescript, Tailwind CSS, adhering to Figma designs.
 - **Backend:** Developed scalable microservices with Node.js/Express.js, Corn Jobs, JWT-based API validation and SQL Server.
 - **Execution Frameworks:** Integrated Playwright (web, API) and Appium (mobile) for seamless test execution.
- **Custom Features:**
 - Implemented Audit Trail for each single user actions.
 - Designed an execution agent for browser and mobile device interaction.
 - Enabled API collection uploads via Swagger/Open API/Postman.
 - Designed AI-driven data generation for test case creation.
- **Role:** As a developer, designed and implemented core modules, developed scalable microservices, ensured seamless integration of testing frameworks.

• Test Case Generation from Software Requirements

- **Objective:** Create a system to analyze uploaded software requirements and automatically generate test cases in traditional or Gherkin formats.
- **Solution:** Designed and implemented a chat-based application where users can enter or upload software requirements in Word, PDF, or text formats.
- **Technologies:**
 - **Frontend:** React.js, Tailwind CSS, Typescript, Dark and Light themes, adhering to Figma designs.
 - **Backend:** Developed scalable microservices with Node.js/Express.js, Cosmos DB, and SQL Server, JWT-based API validation.
 - **Security:** Encrypted chat history and API calls to ensure data confidentiality and Concurrent user login sessions.
- **The system:**
 - Automatically classifies requirements as single or multiple system specifications.
 - Segments documents into manageable parts and generates relevant test cases.
 - Streams responses on the chat UI token-by-token, displaying markdown text in a user-friendly format.
- **Role:** Integrated JIRA for Dynamic requirement designed a popup interface and addressed security vulnerabilities. Implemented auto logout and enforced a 5-minute lockout after three failed login attempts. Developed test case editing within the chat UI and enabled test case export to Excel.

CONTACT



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TECHNICAL SKILLS

Frontend:

- React JS
- Next.js
- Redux State Management
- Typescript
- HTML
- CSS
- Tailwind CSS
- Bootstrap
- MUI
- API Integration
- Functional Development
- Axios

Backend:

- Node JS
- Express JS
- API development (REST)
- Agent development
- Node file system
- JWT
- Data encryption using AES

Database:

- SQL Server
- MySQL
- MariaDB

Supplementary Technical Skills:

- Agile, Scrum – Development methodologies
- Git – Version Control Systems
- Playwright, WebDriver IO, Appium, Selenium, React Testing Library - Testing Frameworks.
- Docker – Containerization

TOOLS

- **Development:** Visual Studio Code (VS Code)
- **API Testing & Debugging:** Postman, Insomnia
- **Database Management:** MS SQL Management Studio, MariaDB, SQL Server
- **Automation & Testing:** Playwright, WebDriver IO, Selenium WebDriver, Appium Inspector

EDUCATIONAL DETAILS

- **Bachelor of Engineering (B.E.) – Computer science and Engineering, AVS Engineering College, Salem, Tamil Nadu | 2019 – 2023**
- **Higher Secondary Certificate (HSC) – Computer Science, ST. Paul's Higher Secondary School, Salem, Tamil Nadu | 2018 – 2019**

PERSONAL DETAILS

- **Name:** Sanjay Raja
- **Date of Birth:** 06/09/2001
- **Marital Status:** Single
- **Permanent Residence:** Salem

- **Assets and Accelerators Hub (Revamped Version)**
 - **Objective:** Modernize and enhance the platform for better performance, usability, and scalability.
 - **Solution:** Redesigned and developed a secure, user-friendly portal with:
 - 30+ accelerators with user launch capabilities.
 - Organization-level Azure Single Sign-On (SSO) for authentication.
 - Integrated reporting tools with export functionality.
 - **Technologies:** Next.js, MSSQL, Material UI (MUI), Bootstrap, CSS .
 - **Role:** Revamped the platform using Next.js, ensuring a responsive and improved UI/UX. Developed compatible interfaces, enhanced accessibility, and optimized performance. Strengthened security features and integrated MSSQL for efficient data management.

CERTIFICATIONS

- Test Automation - Java Selenium (Expleo Group)
- Software Testing (ISTQB)

DECLARATION

I confirm that all the information provided in this resume is accurate, complete, and true to the best of my knowledge. I take full responsibility for the correctness of the details mentioned.

Thank you.