



SANJAY RAJA

OBJECTIVE

Full Stack Developer with 3 years of experience in designing and developing scalable web applications using React.js, Next.js, Node.js, and Express.js. Skilled in building end-to-end solutions with strong knowledge of RESTful APIs, database systems, and Agile practices. Eager to contribute to innovative software projects in the tech industry by delivering clean, efficient, and maintainable code that drives business value.

CONTACT

- +91 9677334820
- rsanjayraja78@gmail.com
- [LinkedIn](#)
- [Portfolio](#)

TECHNICAL SKILLS

Frontend :

- React JS
- Next.js
- Redux State Management
- Typescript
- HTML
- CSS
- SASS
- 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

PROJECTS

• Testing Automation tool

- **Objective:** Built a web-based test automation platform to streamline API, web, and mobile testing processes with scalable architecture and user-friendly interfaces.
- **Project Overview:** Designed and developed a complete full stack solution with key features such as AI-driven test data generation, dynamic test case creation, API collection import (Swagger/Open API/Postman), and real-time execution reporting.
- **Tech Stack & Responsibilities:**
 - **Frontend:** Developed responsive UI using React.js, TypeScript, Tailwind CSS, and Figma-based design systems.
 - **Backend:** Engineered scalable microservices using Node.js and Express.js, implemented JWT-based authentication, and managed background tasks with cron jobs.
 - **Database:** Integrated with SQL Server for structured data storage and retrieval.
 - **Execution Layer:** Integrated testing frameworks like Playwright and Appium for automated execution and reporting.
- **Custom Features:**
 - Built a robust execution agent for browser and mobile device interaction.
 - Implemented a comprehensive audit trail for user activity tracking.
 - Enabled secure API collection uploads and AI-powered test logic generation.
- **Role & Contribution:** As a Full Stack Developer, I led the design and development of core modules, implemented scalable backend services, integrated frontend with backend seamlessly, and ensured security, performance, and usability across the application.

• Assets and Accelerators Hub (Revamped Version)

- **Objective:** Redesign and modernize an existing enterprise platform to improve performance, usability, security, and scalability.
- **Project Overview:** Led the full stack redevelopment of a secure and responsive portal featuring:
 - Over 30+ accelerator tools with user-triggered launch capabilities.
 - Azure AD Single Sign-On (SSO) for organization-level authentication.
- **Tech Stack & Responsibilities:**
 - **Frontend:** Rebuilt UI using Next.js, Material UI (MUI), Bootstrap, and custom CSS, ensuring responsive and accessible design.
 - **Backend/Database:** Enhanced backend performance and security with MSSQL for optimized data storage and management.
 - **Security:** Integrated enterprise SSO, enhanced access control, and strengthened system security.
- **Role & Contributions:** As a Full Stack Developer, I redesigned critical interfaces, implemented frontend-backend integrations, improved accessibility standards, and strengthened platform security.

TOOLS

- **Development:** Visual Studio Code (VS Code)
- **API Testing & Debugging:** Postman, Insomnia
- **Database Management:** MS SQL Management Studio, MariaDB, SQL Server
- **Automation & Testing:** Playwright, WebDriverIO, 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 School (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

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.

- **AI-Assisted Code Generation & Repository Integration Platform**
 - **Objective:** Develop a front-end application that interacts with a Python-based backend to generate, display, and manage source code dynamically, with integrated authentication and version control operations.
 - **Project Overview:** : Designed and implemented a React-based user interface for an AI-driven platform where users can authenticate, generate source code through backend APIs, and commit the output to version control systems such as GitHub, Azure Repos, and Bitbucket. The platform also supports editing and saving of generated code directly within the UI
 - **Tech Stack & Responsibilities:**
 - **Frontend:** React.js, TypeScript, Tailwind CSS, Zustand for state management, responsive design implementation.
 - **Backend:** API Integration with Python backend for code generation and commit operations.
 - **Authentication & Security:**
 - JWT-based token authentication.
 - Session timeout handling.
 - Auto logout implementation on inactivity.
 - **Code Interaction Features:**
 - Real-time display of backend-generated code.
 - Edit and save functionality within the UI.
 - Code version tracking and commit triggering.
 - **Role & Contribution:**
 - Developed and maintained the React-based front-end UI.
 - Implemented global state handling using Zustand.
 - Integrated secure API calls for code generation and authentication using JWT.
 - Developed session timeout and auto-logout mechanisms.
 - Enabled seamless interaction with repository services (GitHub, Azure Repos, Bitbucket) for commit operations.
 - Implemented inline code editing and save functionality within the chat/code preview interface.
 - Ensured code responsiveness and UI consistency across themes and devices.
- **Test Case Generation from Software Requirements**
 - **Objective:** Develop a full stack application that ingests software requirement documents and automatically generates test cases in traditional or Gherkin formats.
 - **Project Overview:** Built a chat-based platform where users can enter or upload requirements (Word, PDF, text).
 - **Tech Stack & Responsibilities:**
 - **Frontend:** React.js, TypeScript, Tailwind CSS, dark/light themes, Figma-driven designs.
 - **Backend:** Node.js/Express.js microservices, Azure Cosmos DB & SQL Server, JWT-based API validation
 - **Security:** Encrypted chat history and API calls, concurrent session management, auto-logout after 3 failed logins with 5-minute logout.
 - **The system:**
 - Classifies documents as single or multi-spec specifications.
 - Generates relevant test cases via AI-driven processing.
 - Streams results token-by-token in a markdown-styled chat UI.
 - **Role & Contribution:** 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.

TOOLS