

SANJAY ARAKKAN

SOFTWARE ENGINEER

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ABOUT ME

Software Engineer with 5+ years of experience in designing, developing, and implementing software solutions using a range of programming languages, frameworks and packages, including **ReactJS, Angular, TypeScript, JavaScript, Material UI, Fluent UI, Redux, React Query, Webpack, React Router, React Hook Form, Zod, Express, NextJS**. Experience with migrating applications to new technologies, developing **Single Sign-On (SSO)** for login workflows using **Azure Entra Id and MSAL**, creating **Microfrontend architecture with Module Federation, version controlling using Monorepo with Nx** and maintaining development coding standards. Proven ability to bridge the gap between product teams and the UI core team to facilitate component generalization and integration.

ACHIEVEMENTS

- ★ **2019 Pixel Award:** Awarded for quickly adapting to a new project and making significant contributions in both development and automation testing as a rookie.
- ★ **2021 Spot Award:** Recognized for my contributions to the Atlas project.
- ★ **2023 Pixel Award:** Earned for the quick and timely delivery of the Bloodstream project.

WORK EXPERIENCE

Software Engineer

Clinisys - Bangalore

Apr 2021 - Present

- Successfully transitioned the organization from Angular to React (Microsoft Fluent UI & Material UI), demonstrating expertise in adapting to new technologies and delivering results within tight deadlines.
- Currently, I thrive in a dual role as a developer and internal product owner. I actively collaborate with other teams and work closely with the Requirement Engineer to define the roadmap for our team.
- Implemented the Single Sign-On (SSO) login workflow for modern React applications, leveraging MSAL (Microsoft Authentication Library) and Azure ADB2C to streamline user authentication.
- I play a vital role in shaping the architecture of projects, establishing conventions and structures that ensure consistent coding standards.

- As a key contributor to the UI framework library, I have created reusable components in both Angular and React and integrated them into the UI library. My collaboration with the UI/UX team extends further, where I provide valuable guidance and feedback on their UX designs.

Associate Software Engineer

Clinisys - Bangalore

Feb 2019 – Apr 2021

- Revamped core legacy applications using SPA, with enhanced UX and modern UI features, improved performance and responsiveness by more than 50%.
- Served as the architect for the development of a comprehensive test automation suite, establishing standardized coding guidelines to ensure consistency and maintainability.
- Effectively bridged the gap between the application development and framework teams, facilitating the generalization of core components and their integration into the framework.

Intern

Clinisys - Bangalore

Dec 2018 – Feb 2019

- Built a full-stack application using Angular, Node JS, SQL to showcase my technical proficiency and ability to deliver software solutions.

PROJECTS

Mitogen (2019)

- Operated as an automation tester, creating automation scripts using Protractor and Javascript.

Atlas (2019)

- Atlas is an existing legacy desktop application, which had to be converted into a modern looking UI.
- Created the project from scratch, worked on development of features like Patients, Orders, Reports, components, API integration, generalization of components etc.
- I implemented complex generative forms, feature rich tables, and login workflows.

BloodStream (2020)

- Developed and delivered BloodStream application, within strict deadlines.
- Developed BloodStream dashboard page, charts page, forms, and feature-rich tables with sorting, pagination, and column pinning functionalities.

Specimen Processing Management (2020)

- Upgrading the existing SPM Angular 6 application to the latest Angular version involved fixing breaking changes and unit testing the application to ensure functionality is maintained.

Work Allocation (2021)

- Developed and delivered the WA application from scratch, meeting tight deadlines. Built with ReactJS and MS Fluent UI, WA utilizes the MS Authentication Library for seamless SSO login.
- The security was further enhanced by developing the SSO login using MSAL. This involved creating custom login and forgot password pages in Azure, along with managing app registrations and user flow setup within Azure Active Directory B2C (ADB2C / AAD). Additionally, the application provides multi-language support through Azure workflow and react-i18next.

Clinisys Design System (2022)

- CDS is a library which the product teams can consume. The CDS library includes a Storybook application for interactive documentation and sample use cases.
- Implementing generalized and reusable CDS components (e.g., hierarchical cards, user settings, accounts dialog, app header) with comprehensive documentation and use cases.
- Worked as the Internal Product-Owner for the team, prioritizing features, managing the backlog, creating roadmaps for the team.
- Collaborated closely with the UX team and other product teams to ensure CDS components aligned with user needs and project goals.

Solution Licensing (2023)

- Solution Licensing is an internal application that facilitates the creation of user licenses with specific details. Created using React, Material UI for UI components, the React Hook Form library for form validation, Azure Entra Id for SSO, and react-i18next for translation support.
- I set up Azure Entra Id SSO and developed custom logic within the React application to enforce session timeouts based on user inactivity.

Clinisys Laboratory Solutions (2024)

- Built various features for the Patient and Client modules using React and Material UI. Additionally, I leveraged libraries like React Hook Form for form validation, Redux for centralized state management, and react-i18next for comprehensive translation support.

EDUCATION

- Postgraduate - Artificial Intelligence and Machine Learning Great Lakes & University of Texas at Austin 2020 – 2022
- BTech - Computer Science & Engineering Srinivas Institute of Technology, Mangalore 2014 – 2018
- Computer Science - St. Michaels AIHSS, Kannur 2012 - 2014 (Higher Secondary)