

Manikandan Prabhu R

Software Engineer at Centizen, Inc.

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Professional Summary

Software Engineer with 3+ years of experience in Angular, TypeScript, and JavaScript. Skilled in building e-commerce websites, DOM manipulation and optimizing performance. Works well in agile teams and follows best coding practices to write clean and maintainable code and a team player focused on delivering high-quality software and achieving project success.

Experience

Software Engineer

Centizen, Inc, Tirunelveli, TN, India

Dec 2021 - Present

ZenBasket (E-commerce Platform)

- **Designed and implemented** key modules of a scalable Angular-based e-commerce platform, contributing to critical UI features and performance improvements.
- Utilized **Angular forms, pipes, directives**, and **services** to build reusable and dynamic UI components.
- **Implemented unit and end-to-end testing** using Jest, Protractor, and Karma, ensuring high code coverage and stability.
- Developed a reusable product card component, **reducing code duplication by 30%** and simplifying updates.
- **Collaborated with cart module team** and build a floating cart module with real-time updates using **Angular and Angular Material**.
- **Created a dynamic banner module** with multiple UI layouts and animations and making it configurable using JSON, eliminating **40%** of repetitive code.
- **Designed and implemented a customizable navbar** with admin control panel which provide accessibility to the user to customize their navbar.
- **Built and integrated RESTful APIs using Express and NodeJS** for store domain management and redesigned & refactored existing domain modules for better maintainability.
- Converted heavy Angular components into web components using **Angular Elements** which **reduced bundle size by 75%** and improving load performance.
- **Implemented state management** using NgRx and **lazy loading** to optimize performance and reduce redundant API calls by 50%.
- **Developed and integrated Zen-Menu**, a custom-built alternative to Angular's Mat-Menu, to address limitations and improve menu customization and performance.
- **Implemented a theme subscription error logging module** to track and tabulate logs related to the payment status of the paid themes module.
- **Used SonarQube and linters** to maintain code quality and standards.
- **Mentored junior developers** and conducted code reviews, improving code quality and team efficiency.

Career Portal

- **Designed and implemented user interface** for job listing, detail, and registration modules using Angular and Angular Material.
- **Ensured accessibility and responsiveness** of the above pages for multiple screen sizes and browsers.

Zen Studio (No code website editor)

- **Built and maintained the core Playground module**, enabling users to drag-and-drop elements, edit existing elements, or insert new sections (empty or pre-designed) into a dynamic page layout.
- Responsible for rendering all page content by **manipulating a central JSON structure** and passing updates to a shared service that reflects changes in the DOM.
- **Developed a custom draggable directive** using raw DOM events, allowing any element to be interactively moved while ensuring the corresponding JSON model stays in sync.
- **Developed a clickable directive** that dynamically opens configuration dialogs based on element type like full configuration modal for advanced elements and a properties panel for simpler ones.

Skills

Frontend:

Angular, Angular Material, Typescript, RxJs, NgRx(SignalStore), Javascript , HTML, CSS, SCSS, Web Components

Backend:

Node.js, Express.js, REST API, Postgresql

Unit and Automated Testing Frameworks:

Jest, Jasmine, Protractor, Cypress

Version Control:

Git, Gitlab, Github

Tools:

VS Code, Postman, Sourcetree, PgAdmin

Development Methodologies:

Agile (Scrum)

Education

B.Tech, Information Technology

Kamaraj College of Engineering and Technology, Madurai, TN, India

Aug 2018 - April 2022

GPA - 8.3

Achivements & Awards

Surrealist Designer 2022 - Centizen, Inc.

Most Determined Employee 2023 - Centizen, Inc.