PAVAN SAI MUCHERLA

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PROFESSIONAL SUMMARY

Frontend Lead with over 5.7 years of experience in designing, developing, and optimizing scalable web applications using React, Next Js, Vue3, Angular Js, TypeScript, and modern frontend frameworks. Strong background in building responsive interfaces, transforming Figma designs into interactive UIs, and working in agile environments. Passionate about delivering high-quality code and collaborating across product, design, and backend teams to deliver meaningful solutions.

SKILLS

Frontend: React, Next.js, Vue 3,Vuex, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, Material-UI, Ant Design, Stencil.js
Testing: Jest, React Testing Library, Cypress (basic), Playwright (basic)
Build & Tools: Webpack, Git, Jenkins, SonarQube, Docker, CI/CD pipelines, Vite, Azure, Kubernetes.
Backend: Python, Flask, Node.js, Express.js, Java, Springboot
Design Tools: Figma
Database: MongoDB, MySQL
Methodologies: Agile (Scrum), Micro Frontends, Component-based architecture

WORK EXPERIENCE

Tata Consultancy Services, Denmark — UI Technical Lead

📍 Copenhagen, Denmark | Jan 2023 – Present

- Led the migration of a large-scale insurance platform (Tryg A/S) from AngularJS to React using a micro frontend architecture.
- Built and Collaborated on an in-house design system using Stencil.js, providing reusable, framework-agnostic components that improved consistency and reduced duplicated UI efforts across organization.
- Built a scalable Nordic consent management platform using Vue 3 and Vuex, allowing users to securely accept and manage consents through an intuitive, responsive interface.
- Built and maintained a reusable React component library using TypeScript and React.js, reducing development time by 40%.

- Implemented optimization strategies with Webpack and lazy loading, resulting in a 25% boost in performance.
- Transformed static UI designs from Figma into dynamic, responsive web applications.
- Owned frontend standards and best practices, driving code quality, accessibility, and maintainability across the UI codebase.
- Conducted code reviews and ensured high-quality, maintainable, and testable codebases.
- Promoted CI/CD best practices using Git, Jenkins, SonarQube, and Docker.

Tata Consultancy Services, India — Developer

📍 Bangalore, India | Aug 2020 – Jan 2023

- Built a responsive sales support portal for Tryg Insurance using React, Material-UI, and REST APIs.
- Developed micro frontends with a reusable template generator, accelerating project delivery.
- Integrated AI-powered chatbot features using REST APIs and ensured seamless UI interactions.
- Focused on responsive design principles for mobile and desktop parity.
- Employed agile methodologies and participated in sprint planning, retrospectives, and demos.

Knowledge Lens Pvt Ltd — Data Science Intern

📍 Bangalore, India | Jan 2020 – May 2020

- Developed a C#-based Azure chatbot for HR, integrating Azure Cognitive Services for image-text extraction.
- Deployed solutions on Azure with blob storage integration.

PROJECTS

Operational Dashboard
- Developed an operational dashboard using Next.js, TypeScript, and Ant Design components to visualize production metrics and simulate real-time data.
- Created reusable UI components and forms with Ant Design for user interaction and data input.
- Used mock APIs and local storage to simulate manufacturing data flow, such as output levels and process deviations.
- Focused on responsive layout, accessibility, and optimized performance using Next.js dynamic imports.
- Tested components with Jest and React Testing Library, and deployed the app via Vercel.

EDUCATION

Bachelor of Technology (IIIT) (Computer Science & Engineering)

Indian Institute of Information Technology, Sri City — 7.97 CGPA
Aug 2016 – Jun 2020