Bharath Ilangovan

Associate Software Engineer

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CAREER OBJECTIVE

Front-End Developer with 2+ years of React.js experience, skilled in creating responsive, dynamic user interfaces. Passionate about solving complex challenges and continuously upskilling in new technologies. Seeking a role to contribute expertise and drive impactful user experiences in a collaborative environment.

WORK EXPERIENCE

- **Cantier Systems - Coimbatore,India** *(May 2023 - Current)*
  Junior Software Developer(UI)

- **Intern at Calibraint Technologies - Chennai, India** *(January 2023 - April2023)*
  Full Stack Developer

PROJECTS

AI-Powered MES Talk Bot *(Cantier Systems - CBS)*
(November 2024 - Current)

- Developed the frontend for an **AI-driven MES Talk Bot** using **React**, **Redux**, **Axios**, and **D3.js** to deliver real-time industrial insights.
- Integrated with a **Django** backend, leveraging ML models (PyTorch) and Neo4j to provide prompt-based responses on machinery status, production metrics, and workflow efficiency.
- Designed an intuitive UI for **seamless interaction** and **operational optimization**

Web Application for Industry X.0 *(Cantier Systems - CBS)*
(August 2024 - Current)

- Led the development of a new Industry 4.0 web application with enhanced features, creating a **Scalable Micro frontend architecture**, defining file structures, and establishing best practices.
- Utilized **React.js**, **Material-UI**, and **Redux** for high-performance UI and state management.
- Mentored junior developers, assigning tasks and guiding them through implementing features within the Micro frontend architecture.

Windows Application for Industry 4.0 *(Cantier Systems - CMMS)*
(January 2024 - March 2024)

- Enhanced and optimized the existing codebase for a **React Native Windows** CMMS application designed for industrial tablets, improving inventory management workflows on the shop floor.

- Developed new features that strengthened the application's offline capabilities with **Automated Data Synchronization**, ensuring seamless operation upon network reconnection.
- Leveraged Redux for advanced state management and integrated **Asynchronous Storage**, significantly boosting responsiveness and reliability in diverse network conditions

(March 2024 - August 2024)

- Due to limited support from React Native Windows, migrated the project as a sole developer to a more scalable stack using **Vite**, **React.js**, **Tauri**, **TypeScript**, and **Redux Toolkit**.
- Implemented Tauri Rust's plugin store for enhanced **offline functionality** and **auto-synchronization** when network connectivity is restored.
- Ensured robust offline data logging using Tauri Rust's plugin store log, maintaining data integrity and performance in low or no connectivity environments.

Web Application for Industry 4.0 *(Cantier Systems - CBS)*
(August 2023 - December 2023)

- Spearheaded the development of a micro frontend-based inventory management web application tailored for shop floor operations, enhancing modularity and driving operational efficiency.
- Utilized **React.js**, **Material-UI**, and **Redux** for high-performance frontend development and state management.
- Developed and integrated **Spring Boot APIs** using Spring Data **JPA**, **MySQL**, and **RESTful services**, ensuring real-time data synchronization and system interoperability.

Custom UI Template Library *(Cantier Systems - CBS)*
(May 2023 - July 2023)

- Independently developed a scalable, responsive UI component library using **Vite**, **Material-UI**, and **TypeScript** (**TSX**) to streamline project development.
- Built **Reusable Custom UI components** for enterprise-grade applications with cross-browser compatibility and responsive design.
- Packaged the library for installation via Git, facilitating modular integration across multiple projects with development efficiency.

EDUCATION

- **B.E - COMPUTER SCIENCE AND ENGINEERING**
  Dr.N.G.P Institute of Technology
  08/2019 - 03/2023   *- Coimbatore,TamilNadu*
  CGPA - 8.4

CERTIFICATIONS

- AWS Certified SysOps Administrator Associate Certification *(SOA-C02) - July 2024*
- AWS Certified Solutions Architect Associate Certification *(SAA-C03) - October 2023*
- Programming using java - Infytq - *July 2022*

TECHNOLOGIES

- **Frontend Development:** HTML5, CSS3, JavaScript, TypeScript, ReactJS, Redux (Redux Hooks), Next.js, RxJS, Angular, MUI (Material-UI)
- **Build Tools & Bundlers:** ViteJS, Webpack, Babel
- **Backend Development:** Node.js, Express.js, Java, Spring Boot, Hibernate, JPA (Java Persistence API)
- **Databases:** MongoDB, MySQL
- **Architecture & Design:** Microservices
- **Version Control & DevOps:** Git, AWS (Amazon Web Services)