

# Pratap Thunga

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## OBJECTIVE

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Frontend Developer with **3+ years of experience** building high-performance **React.js** applications. Expertise in **Redux, Material UI, Azure DevOps, CPQ Rule engines, Vite migration**, with a proven track record of **enhancing UI/UX, optimizing performance, and improving application scalability**. Skilled in **full-stack collaboration, Agile methodologies, and CI/CD pipelines**. Passionate about learning, delivering efficient, user-centric solutions while maintaining clean and reusable code.

## EDUCATION

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**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology**

Chennai, Tamil Nadu.

*Bachelor of Technology in Computer Science (CGPA 7.8/10).*

*July. 2016 – July 2020*

## Work Experience (3+ YEARS IN INFOSYS LTD.)

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**Frontend Developer | React.js | UI Engineer**

July 2022 – Present

*Infosys Ltd.*

*Bangalore, Karnataka*

- Proficient in creating reusable components using React.js, enhancing code maintainability and scalability.
- Implemented UI/UX designs into functional websites leveraging React.js, ensuring seamless user experiences.
- Collaborated closely with design teams and backend developers to translate design concepts into visually appealing and functional UI components.
- Proficiently employed technologies and tools such as Redux Toolkit, Webpack, Material UI, Git, and effectively integrated third-party libraries to enhance application performance.
- Leveraged Configit, Epicor, and JSON-based rule engines to design and deploy automated business rules, improving system accuracy and operational efficiency.
- Gained proficiency in tools like Jira, Confluence, and SonarQube, contributing to a holistic understanding of project management and quality assurance.
- Actively engaged in key project activities, including code reviews, daily stand-up meetings, sprint planning, and retrospectives, ensuring alignment with project objectives.

**Frontend Developer - Training**

March 2022 – May 2022

*Infosys Ltd.*

*Mysore, Karnataka*

- I have successfully completed foundational training in HTML, CSS, JavaScript, and React.js and cleared the assessment with 77 percent.
- Successfully developed Capstone projects utilizing React.js, including a real estate booking application that demonstrates my proficiency in front-end development and user interface design.

## PROJECTS

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**Socket & Meter board Configurator | JavaScript, React JS, Redux**

- Led the architectural migration from a legacy **third-party rule engine** to a custom-built, in-house solution; improved system performance and reduced licensing costs while maintaining complex business logic integrity.
- Developed a **GDPR-compliant cookie** and **analytics** consent modal, enabling ethical user data collection and boosting lead generation by capturing high-intent user insights.
- Integrated RESTful document APIs to automate the dynamic generation of Bills of Materials (BOM), allowing users to export and download real-time configuration data in multiple formats.
- Set up an **Azure DevOps** pipeline to track code coverage and detect security vulnerabilities on the **SonarQube** platform.
- Designed and implemented a system to fetch product configurations from the **CPQ rule engine** to the client side.
- Worked on data insertion and updates using **Microsoft SQL Server (MsSQL)**.
- Remediated 15 critical penetration testing vulnerabilities during UAT; collaborated with security teams to ensure a zero-defect production launch and on-time go-live.
- Implemented a real-time geolocation feature in React.js, enhancing personalization and user engagement by **30%**.

**Lighting Configurator (Version 3) | JavaScript, React JS, Material Ui**

- Implemented a complex **login flow** and **email verification via OTPs** within the configurator, ensuring secure user authentication and data integrity. Additionally, developed APIs to seamlessly share data with the backend, facilitating efficient communication and data management between frontend and backend systems.
- Worked on a custom Canvas-based design space for building plans, users in room drawing and precise product positioning for electrical load and lighting optimization.
- Developed a **Proof of Concept (POC)** to visualize lighting performance by parsing **EULUMDAT (.ldt)** files and rendering Polar Graphs; implemented Iso-candela and linear plots to accurately identify light throw patterns and distribution areas.
- Implemented **FitToZoom** functionality within the canvas, enabling users to adjust the view to fit the content within the

canvas, enhancing user experience and facilitating better navigation and visualization of content.

- Created custom metrics within Google Analytics to track specific key performance indicators and implemented a **LookerStudio** dashboard for comprehensive data visualization and analysis. These efforts facilitated in-depth insights into user behavior and performance metrics, enabling data-driven decision-making and optimization strategies.
- Contributed to an agile-based project by actively engaging in regular client interactions aimed at clarifying inquiries and presenting completed user stories.
- Designed **configuration product models** in rule engine for creating product and accessory configurations and ensuring streamlined processes for efficient product management and customization.
- Successfully migrated a Create React App (CRA) based application to **Vite**.

### 3D Elevator Configurator | *JavaScript, React JS, Three JS*

- Built secure **REST APIs** using **Node.js** and **Express.js**, ensuring safe and reliable file transfers of up to **25MB** between front-end and back-end applications, adhering to best practices for data security.
- Built an interactive 3D elevator model with Three.js, delivering **realistic animations** and improving user visualization experience

### Lighting Configurator (Version 2) | *JavaScript, React JS, Material UI*

- Played a significant role in enhancing **tablet compatibility** by refining the resizing and drag-and-drop functionalities of various shapes, contributing to an improved user experience and ensuring seamless interaction across tablet devices.
- Refactored UI components in Material UI, reducing code duplication by **20%**, improving **development efficiency and maintainability**.
- Developed a multi-language architecture using **React-i18next**, successfully localizing the application for French, German, and English markets and expanding user accessibility.
- Resolved critical memory leaks, **boosting application performance by 60%** and reducing system crashes.
- Elevated code coverage by meticulously designing comprehensive unit test cases for user interface components, leveraging technologies including **Jest, React Testing Library, and Enzyme**.
- Implemented **Google Analytics** and created tags within **Google Tag Manager**, alongside writing custom dataLayer code. This initiative enabled comprehensive tracking and analysis of user behavior, facilitating data-driven insights and informed decision-making processes.

### Solar Configurator | *JavaScript, React JS, CSS, HTML*

- Developed a configurator enabling users to customize solar panels, batteries, and charging ports, facilitating accurate calculation of power consumption and enhancing user experience and functionality.
- Integrated Google Maps API seamlessly into the configurator, empowering users to capture precise locations for optimal placement of solar panels, enhancing usability and customization options.
- Enhanced the user experience of a configurator by creating a drag-and-drop interface with React DND, allowing users to effortlessly arrange batteries and solar panels, leading to increased accessibility and user satisfaction.
- Developed interactive power consumption graphs using Recharts, leveraging data visualization libraries to enhance user insights and configurator functionality.

## TECHNICAL SKILLS

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- **Frontend Development:** React.js, Redux, Axios, i18, React Router, Material UI, Bootstrap, Three.js, Vite
- **Programming & Scripting:** JavaScript, HTML, CSS, SQL (MySQL), Java, Data structures.
- **Development tool:** Webpack, Azure DevOps, Docker, Git, SonarQube.
- **Testing & Performance:** Jest, React Testing Library, Vitest.
- **Analytics & Tracking:** Google Analytics, Looker Studio.

## CERTIFICATION

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**AZ-900-Azure Fundamentals, AZ-204- Developing Solutions for Microsoft Azure, Frontend Web Developer (Infosys), React Professional (Infosys), React Associate (Infosys), Agile Developer (Infosys).**

## Awards & Recognition

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- **1 x Insta award** in recognition of project completion, resolving critical issues, and facilitating a seamless User Acceptance Testing (UAT) transition.
- **2 x Rise award (2024, 2025 - Best Team)** – In Pursuit of exceptional performance.
- **2 x Gracias award** from my colleagues, acknowledging my valuable support and assistance.