

# MANOJ AMIRTHALINGAM

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## Professional Summary

I am a dedicated **Software Engineer and Front-End Lead** with a passion for turning ideas into dynamic, interactive, and visually compelling digital experiences. I specialize in building **Single Page Applications (SPAs)**, user-centric websites, and responsive web applications using a robust **MERN Stack** including **HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, Node.js, Express.js, and MongoDB**. With a strong attention to **Clean Code Architecture** and a problem-solving mindset, I consistently deliver seamless, scalable, and maintainable **Enterprise Solutions**. I stay actively engaged with **Agile Methodologies**, emerging technologies, and industry trends to ensure my work remains innovative and effective. I'm committed to creating high-quality digital products that not only meet technical requirements but also enhance **User Experience (UX)** and drive business success.

## Skills & Technical Proficiencies

### Technical & Core Skills:

- Programming Languages: **JavaScript (ES6+), TypeScript, Python**.
- Tech Stack: **MERN Stack** (MongoDB, Express.js, React.js, Node.js).
- **Software Development Life Cycle (SDLC) & Agile**.

### Front-End Development:

- **HTML5, CSS3, JavaScript, TypeScript, React.js, Next.js, Lit, Redux Toolkit, React-Router, React-Query (TanStack), J-Query, Zustand, Material-UI (MUI), React-Bootstrap, Tailwind CSS.**

### Back-End & Database:

- Node.js, Express.js, **RESTful APIs, GraphQL, MongoDB, Mongoose**.

### Tools & Technologies:

- Visual Studio Code, **Git, GitHub (Version Control), Postman, CI/CD Pipelines**.

### Soft Skills & Leadership:

- **Front-End Leadership, Mentoring, Creative Problem-Solving, Collaborative Teamwork, Attention to Detail.**

## Professional Experience: System Engineer - TCS (Front-End (React) Developer | NOV 2021 - Present)

### • Standard Chartered Bank-Singapore. (Front-End Lead | React Developer | FEB-2023 - Present)

- As a **Front-End Lead** specializing in React.js, I excel in crafting **responsive, high-performance** web applications. My expertise lies in delivering seamless user experiences and **Performance Optimization** for speed and scalability.

- **Maintaining Code Integrity and Deployment Readiness:** Regularly reviewing code submitted by other developers (Code Reviews), ensuring adherence to **ESLint/Prettier standards**, merging **Pull Requests** into the main branch, and coordinating deployments to the SIT environment for seamless **Integration Testing**.

- Developed **Reusable UI Components** and functional conditions, creating a **Shared Component Library** for other developers to efficiently build pages and maintain **Design System** consistency across the application.

- **Collaborating with Cross-Functional Teams:** Working closely with UI/UX designers, backend developers, and product managers in an **Agile/Scrum** environment to deliver cohesive products.

- **Optimizing for Speed and Scalability:** Implementing **Lazy Loading, Code Splitting**, and best practices to enhance application performance and scalability under high load conditions.

- **Ensuring Code Quality:** Writing clean, maintainable, and well-documented code, and performing thorough testing to ensure robust and reliable applications.

- **Problem-Solving and Troubleshooting:** Identifying and resolving complex technical issues and **debugging** efficiently, contributing to the overall stability of applications.

### • Prudential-USA. (React Developer | OCT-2022 - FEB-2023)

- Designed and developed **Responsive UI** screens using **Lit and React.js along with TypeScript**, ensuring a seamless **Cross-browser** user experience across devices.

- Developing **High-Quality Web Applications:** Building and maintaining web applications using React.js to ensure top-notch performance and responsiveness.

- My role is pivotal in **bridging the gap between design and technical implementation**, ensuring that web applications are both visually appealing and highly functional.

- Integrated **GraphQL APIs** to fetch and display dynamic data, improving application functionality and **State Management** interactivity.

- Collaborated with backend teams to ensure smooth data flow and proper handling of **JSON API responses**.

- Optimized **API calls** for performance and **Error Handling**, ensuring a robust and efficient frontend.

#### • **WESTPAC-Australia. (React UI Developer | NOV 2021 - OCT-2022)**

- Developed **Dynamic, Responsive User Interfaces** using React.js and modern JavaScript (ES6+).
- Collaborated with **UX/UI Designers** to translate design mockups into **Pixel-Perfect**, interactive components.
- Ensured code quality and scalability by following best practices, including **Component Reusability** and **Modular Architecture**.
- Maintained and updated UI components, ensuring timely delivery of features and **Bug Fixes**.

## Personal Projects

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- Have developed more than 40+ projects using Front-End Technologies like **HTML5, CSS3, JAVASCRIPT (ES6+), and REACT.JS**.
- Developed 3+ **Full-Stack MERN-stack** projects using **Next.js** for improved **SEO and Server-Side Rendering (SSR)**.
- Please visit [Github](#) | [Portfolio](#) to checkout my works.

## Academic Projects

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### DESIGN AND ANALYSIS OF QUADCOPTER DESIGNER & ANALYST

Developed "Design and Analysis of Quadcopter" using **CATIA V5**, analyzed airflow, and calculated drag production. Applied for a **patent** for the quadcopter design.

### AIRCRAFT DESIGN PROJECT

Remodeling **LOCKHEED MARTIN F-22 RAPTOR**: Calculated V-n diagrams, gust load, and critical loading performance. Analyzed internal structures like **longerons, spars, and stringers** using shear force and bending moment diagrams.

## Certifications

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### Professional Certifications:

- **React JS Web Development** - The Essentials Bootcamp (Udemy)
- **MERN Stack Front To Back**: Full Stack React, Redux & Node.js
- The Complete Javascript Course 2024: From Zero to Expert!
- Build Responsive Real-World Websites with **HTML5 and CSS3**.
- Javascript for Beginners & HTML5 Essentials.
- Responsive Web Design Essentials - **Bootstrap & Modern CSS**.

## Education

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### Jeppiaar Engineering College (Affiliated to Anna University).

2017 - 2021

B.E. Aeronautical Engineering - 75%

Chennai, Tamil Nadu.

### Sri Ramakrishna Matric Hr.Sec School.

2016 - 2017

Higher Secondary School - 85%

Perambalur, Tamil Nadu.

### Sri Ramakrishna Matric Hr.Sec School.

2014 - 2015

Secondary School Leaving Certificate - 97%

Perambalur, Tamil Nadu.

## Extra-Curricular Activities

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- Member of the Entrepreneurs Committee in my college.
- Organized "A National level Technical Symposium" under my leadership.
- Represented the school in Zonal-level Chess and Basketball competitions.

I hereby declare that the above information contained hereby is true and correct.

Place: Tamil Nadu, India.

Yours sincerely,

**Manoj Amirthalingam**