



MANOJ AMIRTHALINGAM

SOFTWARE ENGINEER | WEB & FRONT-END DEVELOPER | MERN STACK


ABOUT ME:

A passionate Software Engineer on a mission to turn ideas into interactive and visually stunning digital experiences. Developing user-friendly responsive web applications and eager to explore the field of Data Science in-depth to handle data for International companies. Proficient in HTML, CSS, JavaScript, Python, Express.js, Node.js and MongoDB development tools and frameworks. Strong problem-solving skills and with passion to learn latest industry trends & technologies.

SKILLS

- Languages: Python, Javascript.
- Stack: MERN stack.
- Front-End: HTML5 | CSS3 | JavaScript | React.js.
- Back-End: Node.js | Express.js.
- library: Redux | Bootstrap | React-Bootstrap | React MUI
- Database: MongoDB | Mongoose.
- Tools: VScode | Github | Postman.

EDUCATION

-  **Bachelor of Engineering in Aeronautical Technology.**
Jeppiaar Engineering College | Chennai
2017 to 2021 | 75%
-  **Higher Secondary Certificate**
Sri Ramakrishna Matric Hr.Sec School, Perambalur.
2016 to 2017 | 85
-  **Secondary School Leaving Certificate**
Sri Ramakrishna Matric Hr.Sec School, Perambalur.
2014 to 2015 | 97%

HOW TO REACH ME

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-  <https://github.com/manoj-amirkalai> (17+ projects)
-  <https://manoj-amirkalai-portfolio-website.onrender.com>

PROFESIONAL EXPREIENCES

Software Developer(Web Developer) TCS | NOV 2021 - Present.

- Worked for an **Australia-based Bank project** on 7 applications
- Assisted in the development of web applications, **focusing on front-end technologies.**
- **Developed** user to International Client WESTPAC Bank **User interfaces** with modern JavaScript frameworks, HTML5, and CSS3, which improved user satisfaction by 80%.
- **Developed documentation** to train new team members in company standards .Expert trainer on **React.js, JavaScript, HTML5, and CSS3.**
- **Enhanced website** functionality using React and reduced 32% reduction in page load time. **Used Git** for version control to **decrease code conflicts** by 51% to User-Interface for new product concepts.
- Assisted colleagues to **troubleshoot and resolve technical** issues.
- **Mentored new team members** via knowledge transfer sessions.
- **Collaborates onshore team members**, and clients to **complete tasks within the deadline**, resulting in 100% on-time delivery.
- **Working closely with designers** to ensure the **correct implementation** of UI components, layouts and visuals.

ACADEMIC PROJECTS

DESIGN AND ANALYSIS OF QUADCOPTER

Role : Designer & Analyst

Using CATIA V5, **designed** a **quadrapter** with **minimal air drag**, which **enhanced** travel **speed** and operational efficiency. I **applied for design patent** for the quadcopter

AIRCRAFT DESIGN PROJECT

Role : Project Lead

Remodeling of LOCKHEED MARTIN F-22 RAPTOR to increase the gust load and weight distribution ratio. Used the V-n diagram for different flight **phases, gust load and critical loading performance** of the aircraft to calculate the **load distribution** over the wing & fuselage. **Analyzed the internal structure** of the aircraft i.e., parts like longerons, spars, stringers etc. Selected right materials for the parts of our aircraft based on analysis, thereby reducing cost and improving performance