AKSHAY J TADAKOD

Systems Engineer

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PROFILE

Dedicated Front-End Web Developer and Java programmer crafting dynamic user-centric web applications. Accomplished end-to-end project lifecycles from design to seamless deployment. Committed to continuous learning, staying current with emerging technologies for innovation. Enthusiastic about embracing new challenges and collaborative excellence.

PROFESSIONAL EXPERIENCE

Systems Engineer Nov 2021 – present | Bangalore, India
Infosys

Full-Stack Developer | Integration and Migration Project
Nov 2022 - July 2023

1. Web-Based Excel Compare Tool Development:
- Independently designed and built a web tool to accurately compare Excel files, generating detailed textbased results.
- Utilized a comprehensive technology stack including HTML, CSS, JavaScript, Java Servlet, and Apache Server for a seamless user experience.
- Proficient in full-stack development, seamlessly integrating front-end and back-end for a cohesive and responsive Excel Compare tool.

2. User-Friendly Interface Design:
- Created an intuitive web interface using HTML and CSS, ensuring easy accessibility and user-friendliness for diverse users.
- Enhanced interactivity and form validations with JavaScript to boost user engagement and satisfaction.

3. Efficient Back-End Management:
- Implemented Java Servlet technology to streamline data processing and communication between front-end and back-end components.
- Ensured secure and reliable performance by configuring and maintaining the Apache Server environment.

4. Thorough Documentation:
- Documented the entire development process, including architecture, code, and technical details.
- Produced detailed user manuals and guides for effective tool navigation and utilization.
- Ensured comprehensive documentation of implementation steps, facilitating smooth knowledge transfer and future maintenance.

Change Analyst | Oracle Agile PLM Project
Feb 2022 - Nov 2022

- Managed and executed Engineering Change Requests (ECRs), including Engineering Change Orders (ECOs) and Deviations, adhering to Standard Service Level Agreements (SLAs).
- Collaborated closely with cross-functional teams to address end-user queries and concerns related to manufacturing change orders (MCOs) and Change to Unreleased Product (CUP) processes.
- Conducted rigorous assessments of Engineering Change Requests to ensure alignment with corporate guidelines and matrix.
- Proactively identified discrepancies in Change Orders and promptly rectified missing or inaccurate information, ensuring compliance with corporate policies.
- Played a key role in optimizing approval matrix workflows by facilitating approvers' addition, removal, and adjustment, streamlining MCOs and CUPs movement.
- Demonstrated proficiency in managing deviations, including daily tasks of extending, re-extending, and expiring deviations to maintain process efficiency.
- Utilized Oracle Agile PLM system to track and document change processes, contributing to accurate and comprehensive change history records.
- Collaborated with stakeholders to provide training and support on system functionalities, resulting in improved user understanding and increased adoption.

Graduate Apprentice Trainee Jun 2020 – Aug 2021 | Bangalore, India
Hindustan Aeronautics Limited

Hydraulics Department (AMCA Project) , Aircraft Research and Design Center (ARDC)
Jun 2021 - Aug 2021
- Collaborated on hydraulic layout and routing for Advanced Medium Combat Aircraft (AMCA) Secondary Power Systems (SPS), Spine area, and Flight Control System (FCS), focusing on Primary Control Surfaces.
- Utilized Catia and Teamcenter for modeling and drawing creation, specializing in Part Design, Assembly, and Routing of Hydraulic Systems.
- Proficient in Hydraulic hoses, hose end fittings, tubes, and tube end fittings, including Airdrome and Permaswage Fittings.

Development Department (Methods), Foundry and Forge (F&F)
Dec 2020 - Jun 2021
- Acquired expertise in Aerospace industry Casting (Investment Casting, Aluminium/Magnesium Casting), Forging, and Ring Rolling techniques.
- Demonstrated competence in part modeling, drafting using NX-10, and creating Method sketches, Product Drawings, and Technology sheets using Autocad 2021.
- Proficient in interpreting industry-standard CAD drawings, basic GD&T concepts, and simulation tools like MAGMASOFT (casting) and Simufact (forging).

Quality Control, Blade Shop (Cheetah Chetak), Helicopter Division
Jun 2020 - Dec 2020
- Developed a comprehensive understanding of manufacturing, testing, repair, and traceability of the Main Rotor Blade (MRB) and Tail Rotor Blade (TRB).
- Skilled in calibrating measuring devices, testing equipment, and using IFS software for documenting New/Serviceable Blades.
- Hands-on experience with NDTs including Radiography - X-Ray (NDTS 001) and Dye Penetrant Test (NDTS 015) for Inspection.
- Proficient in measuring Rotor Blades with calipers, and gauges, and performing Static Balance of Main Rotor Blades.

EDUCATION

Aerospace Engineering 2015 – 2019 | Bangalore, India
Jain University

Higher Secondary School 2013 – 2015 | Khanapur, India
Shantiniketan Pre University College

Secondary School 2009 – 2013 | Mangalore, India
Bhuvana Jyothi Residential School

SKILLS

- HTML
- CSS
- Javascript
- React Js
- Git
- SQL
- Java
- Python
- C#

LANGUAGES

English ●●●●○
Hindi ●●●●●
Kannada ●●●●●
Marathi ●●○○○

AWARDS

Insta Award Feb 2023
Infosys
- Accomplished the prestigious Insta Award for spearheading exceptional performance and making significant contributions to Oracle PLM COE initiatives.
- Led the development and execution of pioneering strategies, resulting in a remarkable 35% boost in efficiency and a notable 25% decrease in project turnaround time.
- Devised and implemented innovative solutions, resulting in a remarkable 40% advancement in productivity and a substantial 20% increase in customer satisfaction.

Appreciation Award Feb 2021

Hindustan Aeronautics Limited

- Designed and executed a visually stunning cover page for the Quarterly Magazine of Foundry and Forge Division of HAL, effectively capturing the attention of readers and enhancing the overall appeal.
- Utilized creativity and graphic design expertise to craft a captivating cover page that successfully represented the division's brand and showcased its achievements.
- Received recognition for outstanding work by the division head, who awarded an appreciation Award for the impactful cover page design.
- Contributed to the overall success of the Quarterly Magazine by creating a visually appealing first impression, ultimately increasing readership and engagement.

PROJECTS

Personal Portfolio - HTML, CSS and JavaScript Nov 2023

- Developed a personal portfolio website showcasing skills and experiences as a Frontend Developer.
- Implemented sections for About Me, Experience, Projects, and Contact, creating an easy-to-navigate interface for visitors.
- Ensured optimal viewing experience on various devices through responsive design.
- Enhanced user experience with interactive navigation and smooth scrolling.
- Provided links to GitHub and LinkedIn profiles for further exploration of skills and background.
- Created project cards with buttons for easy access to GitHub repositories and live demos.
- Utilized HTML5, CSS3, and JavaScript technologies throughout the development process.
- Referenced the project on my Github Page: **https://github.com/Ak-Nobelwolf/Personal-Portfolio**

Text Utilities - React Project Dec 2023

- Developed a dynamic Text Utilities web app using React, Bootstrap, JavaScript, HTML, and CSS.
- Implemented advanced text transformation features, including case conversion and sentence capitalization.
- Engineered robust text analysis capabilities, including word count, character count, and reading time estimate.
- Ensured a seamless user experience with a responsive design across various devices and screen sizes.
- Featured user-friendly interface enhancements such as direct text pasting for efficient input.
- Demonstrated problem-solving skills by addressing real-world challenges in text manipulation.
- Published the project on GitHub for users : **https://github.com/Ak-Nobelwolf/Text-Utilities**

Little Lemon Restaurant Website Oct 2023

- Built a responsive web application using React to showcase the menu and features of the Little Lemon restaurant.
- Utilized React, HTML5, CSS3, and JavaScript to develop the project.
- Created an easy-to-navigate platform for customers to explore the menu, make reservations, and place online orders.
- Implemented key features such as browsing menu items, making reservations, and placing orders for takeout or delivery.
- Showcased the restaurant's history, values, and team on the website's About Us page.
- Referenced the project on my Github Page: **https://github.com/Ak-Nobelwolf/Little-Lemon**

Study on Synthetic Aperture Radar (SAR) calibration using Corner Reflectors Oct 2018 – May 2019

- Designed and created lightweight Corner Reflectors (CRs) with Aluminum Mesh and Aluminum Tape types.
- Successfully tested CRs' performance using SAR satellite deployment in an open field.
- Collected and processed data from Sentinel-1 satellite using Matlab for analysis.
- Developed a semi-automatic remote-controlled mount for efficient CRs deployment, minimizing human involvement.
- Part of the NISAR Mission (NASA and ISRO collaboration) scheduled for launch in 2024.

PUBLICATIONS

The Remote Controlled Mount for Corner Reflector (CR) deployment 16 Feb 2021

AIP Conference Proceedings

Cited as: AIP Conference Proceedings 2316, 020005 (2021);
URL: https://doi.org/10.1063/5.0036764
Published Online: 16 February 2021

Brief :

This paper presents a novel device for orienting corner reflectors towards SAR satellites using Arduino and stepper motors. Corner reflectors are passive devices used for radiometric calibration of Synthetic Aperture Radars (SAR), which require accurate orientation in azimuth and elevation. However, existing methods for orienting corner reflectors are either costly, complex, or manual. Therefore, we propose a low-cost, simple, and remote-controlled mount made of wood polymer composite that can adjust the position of corner reflectors using stepper motors. The stepper motors control the position of the mount by altering the steps of +/-0.50, which are programmed using Arduino. We tested the performance of the remote-controlled mount with corner reflectors over the JGI-Global campus during a Sentinel-1B SAR acquisition. The results showed that the remote-controlled mount was efficient, reliable, stable, and safe when deployed with corner reflectors. We also evaluated the weather and mechanical resistance of the mount to ensure its durability under different environmental and physical conditions.

CERTIFICATES

- HTML, CSS, and JavaScript for Web Developers
- Meta Front-End Developer Specialization
- Infosys Certified Frontend Developer
- Infosys Global Agile Developer Certification
- Infosys Certified .NET Microservice Developer Fundamentals
- Infosys Certified CPQ Developer
- Oracle Cloud Infrastructure 2023 Foundations Associate

DECLARATION

I hereby declare that the information provided in this resume is true, accurate, and complete to the best of my knowledge.

Akshay J Tadakod