ABHITEJ VENNAPU

 Kaiserslautern, Germany +49 17674140842 abhi.tej98@gmail.com linkedin.com/abhitejvennapu

PROFESSIONAL EXPERIENCE

Retcor GmbH, Germany   Apr 2023 - Present
Working Student - Web Developer

- Leading a team in creating a comprehensive web-based ledger tracking application, including the implementation of a robust **Redux architecture**.
- Coordinating with the back-end team to streamline data flow using **RESTful APIs,** resulting in highly efficient and responsive user interfaces.
- Implementing **complex tables with CRUD operations**, **internationalization, theming, responsive design** using the **MDB** framework to elevate the user experience on the application.
- Single-handedly executed the design and development of the company's website as a **single page application** using **React**, effectively replacing the previous website and **enhancing its functionality**.

BASF SE, Ludwisgschafen - RPTU, Kaiserslautern, Germany   May 2023 – Present
Thesis Student

Title: An Integrated Framework for Guiding and Monitoring Students Learning Progress in a collaborative web application

- Creating a **comprehensive dashboard for teachers** within the Teens' Labbook, integrating **CRDTs** to facilitate collaborative work tracking in **React** using **Yjs library**.
- Implementing a **real-time communication subsystem** with CRDTs involving comments and flags to foster instant teacher-student interactions, improving collaboration and feedback within the Labbook.
- Developing a feature allowing teachers to preview all student accounts with strict **access control, intuitive navigation controls**, and student-relevant information display.
- Engineering a **customizable checklist feature**, allowing teachers to create, configure, and track student progress with nested item features.

Fraunhofer IESE, Kaiserslautern, Germany   Sep 2022 - Dec 2022
Contract Employee - Frontend Developer

- Designed the screens and interface using Figma for a web application based on the requirements gathered from the client **John Deere**, Zweibrucken.
- Implemented **client-side routing** for a seamless navigation experience and integrated form validation for data accuracy.
- Employed **Material-UI(MUI)** to create visually appealing components, enhancing user engagement.
- Designed and implemented dynamic tables that seamlessly adapted to data from **RESTful API** responses, providing a user-friendly experience.
- Expertly leveraged **React hooks, including useState**, to meticulously manage application state, ensuring efficient data manipulation during user interaction.

Venture Leap | Probatix, Germany   Jan 2022 - Jan 2023
Working Student - Software Engineer (Development & Testing)

- Performed **state management using Redux** for components like price lists, locations, riders, shopping carts for an online laundry platform that could be interacted with and manipulated in multiple ways.
- Successfully **improved code coverage by 36%** through the creation and execution of comprehensive test suites using **Jest**, resulting in enhanced code quality and a more robust software application.
- Collaborated with the Project Manager to standardize and enhance acceptance criteria for functionalities, resulting in **reduction of bugs by 47%** identified during QA.

Deloitte USI, India   Jan 2019 - Jul 2020
Associate Software Engineer

- Implemented **RESTful API calls** using JavaScript to fetch and display real-time data in a web application, improving user experience by reducing data retrieval times by 30%.
- Leveraged my skills in **JavaScript** to help the development team fix bugs.
- Rebuilt the existing testing framework by creating **reusable functions** that could be used across multiple products using **Java, TestNG, Selenium** to increase the reusability of the code.
- **Reduced the LOC** for automating a test case on an average by **25%.**

EDUCATION

Rheinland - Pfälzische Technische Universität, Kaiserslautern, Germany   Mar 2021 - Present
Masters in Computer Science

- Coursework: Foundations of Software Engineering, Software Project and Process Management, Requirements Engineering, Human Computer- Interaction, Quality Management, Machine Learning.
- Seminar works on "Verification of Asynchronous Distributed Systems" and "Open Telemetry as a Data Source".

VNR VJIET(JNTU), Hyderabad, India   Aug 2015 - May 2019
Bachelors in Information Technology

- Coursework: Web Technologies, Android Application Development, Advanced Databases, OOPs, Java Programming, Data Structures, Software Engineering, Computer Programming.
- Graduated with a GPA of 8.41 in the top 10 percentile of the class.

PROJECTS

CRDT Driven Web Application

- Elevated import and export features to accommodate various file formats (PDF, CSV, HTML) in addition to JSON, leveraging CRDT structures and utilizing React and JavaScript.
- Restructured and enhanced styling aspects of the application using Material UI.

Blue Cake Box - A Confectionary Website

- An academic project to design and develop an e-commerce website for a confectionary store.
- I worked on the front-end aspects of this project using PHP, Javascript, HTML, CSS

SKILLS

Technical Skills: HTML, CSS, Javascript, React, Redux, Yjs, Bootstrap, MaterialUI, TypeScript, Java, Selenium, TestNG, Jest, Git, Mercurial, Jira, Azure Boards, Figma, Python, C, SQL, MongoDB
Soft Skills: Team Player, Problem Solving, Time Management, Adaptability, Communication.
Languages: English (C2), German (A2).

CERTIFICATIONS

- React Basics and Advanced React by Meta offered through Coursera.
- Programming with Javascript by Meta offered through Coursera.
- HTML and CSS in Depth by Meta offered through Coursera.
- Python Language by A.V.R Technosoft Solutions Pvt. Ltd.