

ABHITEJ VENNAPU

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[portfolio](#)

EDUCATION

Masters in Computer Science

Mar 2021 - Jan 2024

Rheinland - Pfälzische Technische Universität, Kaiserslautern, Germany

- Coursework: Foundations of Software Engineering, Software Project Management, Requirements Engineering, Human Computer Interaction, Quality Management, Machine Learning.
- Thesis: An Integrated Framework for Guiding and Monitoring Students Learning Progress in a collaborative web application
 - Implemented collaborative commenting system for Labbook digital classroom, enhancing communication between students and teachers.
 - Engineered a flagging mechanism for student-teacher interactions, streamlining assistance requests and resolutions.
 - Ensured secure access controls, granting teachers access to students private boards within Labbook.
 - Developed visually appealing, dynamically updated components on teacher's dashboard to track student progress, utilizing CRDTs and React.

Bachelors in Information Technology

Aug 2015 - May 2019

VNR VJIET(JNTU), Hyderabad, India

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

PROFESSIONAL EXPERIENCE

Retcor GmbH | Working Student - Web Developer

Apr 2023 - Present

Bielefeld, Germany

- Currently leading the development of the frontend infrastructure for a web-based ledger tracking application using React.
- Architecting and implementing advanced state management through Redux.
- Integrating seamless REST API calls using Axios for efficient data retrieval.
- Conducting thorough testing with Jest and React Testing Library to ensure robust code quality.
- Spearheading a component-driven approach by developing reusable UI components for increased scalability.
- Assumed Scrum Master responsibilities, contributing to Agile development through sprint planning, daily stand-ups, and retrospective meetings.
- Independently designed and developed the company's portfolio website using React and Material UI.

Venture Leap | Working Student - Software Engineer

Jan 2022 - Jan 2023

Berlin, Germany

- Contributed in the development of a shopping cart and product catalog for Bubblebox, an online laundry ordering platform, using PHP.
- Implemented database integration and dynamic content rendering to enhance user interaction.
- Managed the entire testing lifecycle for Bubblebox, including test case formulation, manual testing, and Selenium automation in Java.

- Collaborated with the Project Manager to standardize acceptance criteria for user stories, resulting in a 47% reduction in bugs identified during QA.

Deloitte USI | Associate Software QC Engineer
Hyderabad, India

Jan 2019 - Jul 2020

- Collaborated in rebuilding the testing framework for Solvas TDR, a fintech application, using Java, TestNG, and Selenium to increase code reusability.
- Reduced Lines of Code (LOC) for automating a test case by an average of 25%.
- Provided critical support to the development team during release phases within the ASP.NET framework.
- Co-ordinated with end-to-end developers and business analysts in continuous discussions to gather requirements, create scope documents, and design test cases using Microsoft Azure DevOps for testing deployed code.

PROJECTS

Sync Service Application for John Deere

- A capstone project in collaboration with Fraunhofer IESE and John Deere. The goal of this project was to develop a sync service for their existing system.
- Designed the architecture for the application and ensured successful integration of frontend with backend via RESTful api calls.
- Implemented client-side routing for a seamless navigation experience and integrated form validation for data accuracy.
- Expertly leveraged React hooks to meticulously manage application state, ensuring efficient data manipulation during user interaction.

CRDT Driven Learning Platform for BASF

- A real world project in collaboration with RPTU and BASF SE. The goal of the project was to enhance an existing real time document sharing, collaborating digital learning platform with additional functionalities
- 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.
- Successfully migrated the application from pure CSS to the Material UI framework and implemented responsive design for enhanced adaptability across various devices.

SKILLS

Web Development: HTML, CSS, JavaScript, React, TypeScript, PHP, Redux, Yjs, MaterialUI, Bootstrap, Webpack, Babel, JQuery, Jest

Programming and Databases: Java, Python, MongoDB, SQL Server

Version Control and Project Management: Git, Mercurial, GitHub, Tortoise, Jira, Azure Devops, YouTrack

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.