ABHITEJ VENNAPU

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SUMMARY

Software Developer with 3.5 years of experience, with a focus on building data centric applications with React and TypeScript for more than 2 years. Master's graduate in Computer Science with proven ability in creating user-friendly web applications, designing front end architectures, and writing high quality code with near perfect test coverage.

EDUCATION

Master of Computer Science, Rhineland Palatinate Technical University   APR 2021 - FEB 2024
Relevant Coursework: Foundations of Software Engineering, Human Computer Interaction, Software Architecture, Software Project Management, Requirements Engineering, Machine Learning.

Bachelor in Information Technology, VNR VJIET, India   AUG 2015 - MAY 2019
Relevant Coursework: Object Oriented Programming, Advanced Data Structures, Web Technologies, Java Programming, Big Data Analytics, Operating Systems.

SKILLS

Technical Skills	React.js, TypeScript, JavaScript, Next.js, HTML, CSS, Redux, Figma, Jest, Selenium, JUnit, Git, Mercurial, Jira, Notion, WebPack, Babel.
Languages	English (C2), German (B1).

EXPERIENCE

Front End Developer - Working Student   APR 2023 - Present
retcor GmbH, Bielefeld, Germany

- Engineered a scalable front-end architecture for a financial management tool using React.js and TypeScript, emphasizing Redux state management and efficient API integration. This approach reduced development time for new features by an estimated 15%.
- Developed more than 6 reusable components in React.js, TypeScript involving multi-language support, responsive interface, and lazy loading.
- Incorporated Jest unit and integration testing, achieving an initial code coverage of 63%.
- Revamped the existing company portfolio webapp using React.js and Material UI, resulting in a 24% increase in traffic within the first month.

Software Engineer - Working Student   JAN 2022 - JAN 2023
Venture Leap GmbH, Berlin, Germany

- Applied cost-effective strategies to create front end of a shopping cart in an online laundry ordering platform using JavaScript, leading to a 20% reduction in development cost.
- Achieved a 20% improvement in software quality and reliability while managing its entire testing lifecycle, including formulating test cases, manual testing, and driving automation with Selenium in Java.

Associate Software QC Engineer   JAN 2019 - JUL 2020
Deloitte USI, Hyderabad, India

- Collaborated in a 4 membered team rebuilding the testing framework for a fintech application using Java and Selenium to increase code reusability.
- Optimized automation by reducing Lines of Code (LOC) for a test case by an average of 25%.
- Supported the development team with bug fixes in ASP.NET resulting in a 13% decrease in post-release issues.

PROJECTS

Thesis - The Teen's Labbook for BASF: Developed a sub system in a collaborative learning platform for biology students as part of my Master's thesis at RPTU Kaiserslautern in collaboration with BASF SE.

- Developed interactive data visualization components and a dashboard view for student progress tracking within the Labbook.
- Ensured real time collaboration through web sockets in YJS, handled complex states in the application through Redux toolkit.
- Enhanced user experience: Migrated to Material UI, Integrated responsive design.
- Improved import/export features for the documents (PDF, CSV, HTML, DOCX) leveraging CRDT structures (React, JavaScript).
- Ensured code quality (Jest unit testing) and maintainability (Git/GitLab).
- Achieved high SUS score (89%) indicating positive user perception.

Sync Service Application for John Deere: Developed a React.js application utilizing Redux Toolkit, Axios, and Tailwind CSS for John Deere (in collaboration with Fraunhofer IESE) as a capstone project.

- Designed UI wireframes to facilitate user interaction with the application.
- Implemented state management using Redux Toolkit for efficient data handling.
- Consumed RESTful APIs to seamlessly integrate with existing systems, achieving a 76% success rate in data mapping
- Provided interactive views for customers to read and edit fields from ISO XML documents.
- Styled UI components with Tailwind CSS for a clean and responsive user interface.

CERTIFICATIONS

- Meta courses offered through Coursera: Advanced React, React Basics, Programming with Javascript, Version Control.