DIWAKAR KANCHERLA

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EDUCATION

Vellore Institute of Technology
Bachelor of Technology in Information Technology (9.08)
Coursework: DSA, DBMS..
Vellore, India
July 2021 - june 2025

Narayana Junior College
Intermediate (MPC)
SR Nagar, India
July 2018 - March 2020

EXPERIENCE

Vidrona
Software Engineering Intern
Didcot, Oxfordshire (Remote)
June 2024 - Present

- Developed an intuitive dashboard using **ReactJS** to provide insights for assets system condition and improved **state management** efficiency of **30%** by integrating **Redux** , **Context API** and the **react-query caching**.
- Implemented a real-time alert system using **Firebase Cloud Messaging** to notify operators of abnormalities, enhancing response time and operational efficiency by **40%**.
- Engineered a secure messaging widget using **Socket.io**, **Node.js**, and **JWT** authentication, facilitating seamless interaction between field operatives and executives, enhancing communication efficiency by **50%**
- **Optimized** a previously **non-functional** code base, increasing system stability by 40% and performance by 30%.

PROJECTS

InventoryIQ (Online shopping platform for Gadgets)   (GitHub)

- Built InventoryIQ, an online shopping platform for gadgets using **React**
- Engineered the **backend** using **Node.js** and **Express.js,** resulting in a 50% improvement in **server** response times.
- Implemented token-based user authentication and **Role-Based Authentication**, enhancing security and reducing unauthorized access by 70

Quiz Application   (GitHub)

- Developed a secure login system enabling faculty to manage quiz questions efficiently, leading to a 40% increase in quiz management productivity.
- Designed a dynamic quiz system that generates 5 random questions per quiz attempt, improving the quiz variety and reducing predictability by 80%.

Weather Application (Weather detection)   (GitHub)

- Created a weather application using **React**.
- Integrated real-time data from **OpenWeatherMap**, including dynamic weather icons and detailed weather information, improving user engagement by 60%.

SKILLS

Languages: Java, Javascript, Node.js, HTML, CSS
Libraries& Frameworks: : React, Tailwind,Material-UI
Software: Postman, Visual Studio Code.
Databases & Tools: SQL,Git

CERTIFICATIONS

- MERN Full Stack   **Certificate**
- Data Structures And Algorithms   **Certificate**

Extra Curricular Activities

Zero Waste Management Club   **Certificate**
Vice Chairperson   January 2023 - December 2023

Hackathon   VIT, vellore
*Achieved next to runner-up position in the **CodeForChallenge** web development **hackathon** by developing a platform that promotes **financial literacy** across different age groups. The project included innovative budgeting tools and investment recommendations for Fixed Deposits, Mutual Funds, and Stocks based on historical performance.*