KANCHERLA NAGA VENKATA SHANMUKA DIWAKAR

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EDUCATION

Vellore Institute of Technology — Vellore, India
Bachelor of Technology in **Information Technology** (9.03) — July 2021 - june 2025
Narayana Junior College — SR Nagar, India
Intermediate | MPC — July 2018 - March 2020

EXPERIENCE

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

- Developed an intuitive dashboard using **ReactJS** with reusable components to provide insights into asset system conditions, improving state management efficiency by 30% through the integration of **Redux** and **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%.

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 **role-based authorization** system with distinct access for students and faculty, using Node.js, Express, and MongoDB, ensuring secure access to quiz features and results.
- Implemented a **unique quiz code generation** feature, allowing faculty to create quizzes and students to join using the code, enhancing ease of use and ensuring quiz integrity.
- Designed and built a **dynamic quiz system** where students can attempt quizzes and instantly view results, with **real-time analysis of student performance and class averages** for faculty.

Personal Finance Tracker (GitHub)
- Developed a Personal Finance Tracker using **React.js**, enabling users to manage expenses through **interactive pie charts**.
- Designed a dynamic 3D homepage with **Three.js**, enhancing user engagement and visual appeal.
- Implemented a scalable backend using **Node.js, Express, and MongoDB**, ensuring efficient data management and secure storage.
- Integrated real-time expense tracking, categorization, and analysis, offering users actionable financial insights.

Weather Application | Weather detection (GitHub)
- Developed a weather application using **React JS**, offering a dynamic and responsive user interface for real-time weather updates.
- Integrated real-time data from **OpenWeatherMap**, enhancing engagement with weather icons and details.

SKILLS

Languages: Java, Javascript, Node.js, Express Js, HTML, CSS,
Libraries& Frameworks: : React, React-Native, Redux, jQuery , Tailwind, Material-UI, REST API
Software , Databases & Tools: Postman,SQL, MongoDB, Excel, Git, Chrome DevTools, Figma, Visual Studio Code

CERTIFICATIONS

- MERN Full Stack — **Certificate**
- Data Structures And Algorithms — **Certificate**
- Google Cloud Computing — **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.*