

Newton Frank F

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Education:

Sri Siddhartha School of Engineering (SSSE), Tumakuru
BE, Computer Science.

Data Structures & Algorithms, Database Management Systems, Cloud Computing, System Design, Artificial Intelligence, Natural Language Processing.

2021-25 | CGPA: 7.75 / 10

Experience:

Frontend Developer Intern -
Smartchakra Private Limited

Feb 2025 - June 2025, Onsite

- Engineered a comprehensive Industrial IoT (IIoT) dashboard for real-time monitoring, historical analysis, and predictive maintenance of industrial machinery.
- Implemented a live data visualization module displaying high-frequency sensor streams (vibration, temperature, audio) with a 10-second auto-refresh for immediate operational insight.
- Architected the platform's core features, including an advanced analytics dashboard, a multi-machine fleet overview, and full CRUD functionality for system settings and alert management.
- Designed and developed an intuitive UI that presented complex data through performance metric gauges, historical overlays, and enabling efficient diagnostics for the maintenance team.

Frontend Developer Intern -
Scyara Group Private Limited

May 2023 - Jul 2023, Remote

- Engineered and launched responsive, high-performance web applications using a modern tech stack of React.js and Tailwind CSS, serving as the primary front-end developer for client projects.
- Architected and implemented a component-based design system in React, standardizing UI elements and streamlining the development process, which reduced future implementation time by 25%.
- Designed and developed the core front-end features for multiple websites, ensuring robust cross-browser compatibility and a seamless, mobile-first user experience across all devices.
- Enhanced website visibility and organic search rankings by integrating SEO best practices, including semantic HTML structure, strategic keyword optimization in meta tags and content, and generating XML sitemaps.

Projects:

Unipix – Unified Free Stock Image Search Engine - unipix-newton.vercel.app

- Developed a web application that aggregates free stock images from **Pexels**, **Unsplash**, and **Pixabay APIs**, eliminating the need for users to visit multiple platforms.
- Implemented **keyword-based search** to fetch and display images dynamically, with redirection to the original source for downloads.
- Focused on scalability by avoiding image storage and leveraging **API-driven integration**, reducing sever overhead.

Secure Healthcare Data Sharing with Blockchain

- Developed decentralized application using Ethereum and Solidity for secure healthcare data sharing
- Implemented role-based access control through smart contracts for patients and healthcare providers
- Built React-based frontend with Web3.js integration for seamless user interactions

Skills:

Languages: JavaScript, Python, C, C++

Web Development: React.js, Node.js, Express, REST APIs, MongoDB, MySQL

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD

Blockchain: Ethereum, Solidity, Web3.js

Testing & Tools: Selenium, React Testing Library, Git/GitHub

Design: Figma, Photoshop, Illustrator, Adobe XD

Achievements:

- Founded and led the Programming Club, increasing student hackathon participation by 50%.
- Mentored 10+ juniors in web development, resulting in higher placement readiness.
- Recognized for strong teamwork and adaptability during internships and collaborative projects.