

NEWTON FERNANDIS

Software Engineer

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[GitHub](#) | [Portfolio](#) | [Linkedin](#) | [Blog](#)

EDUCATION

Sahyadri college of engineering and management
Information Science & Engineering - Bachelor of Engineering
CGPA: 8.1

Mangalore, India
Aug 2018 - Jun 2022

EXPERIENCE

Biofourmis | Software Engineer

Bangalore, India | Aug 2022 - Present

- Spearheaded the development of the **Trends View** feature, which incorporated a dynamic graph display alongside patient vital values on the patient listing screen. This configurable feature significantly enhanced user insights by providing graphical representations of key metrics such as Heart Rate (HR), Blood Pressure (BP), and Blood Oxygen Saturation (SpO2).
- Improved the performance of the Trends View feature by optimizing how data is fetched and displayed. Instead of making multiple requests to the server for graph data, I proposed a solution to generate the graphs on the server side and include them in the same data response. **This approach reduced the load time by 20.8% and lowered the strain on the computer's processor by 38.4%.**
- Contributed significantly to the Care @ Home project by creating a **dynamic form*** driven by configurations, enabling patients to seamlessly share their medical history.
- Played a pivotal role in the codebase enhancement through rigorous refactoring, specifically targeting state management and API querying for increased efficiency and scalability.
- Engineered a feature within the Service Provider project enabling clinicians to track the status of specific orders, enhancing workflow visibility and efficiency.
- Implemented **Role-Based Access Control (RBAC)** within the same project, ensuring secure access and streamlined permissions management.

SKILLS

Programming Languages: JavaScript, Typescript, CSS, HTML, C++
Libraries/Frameworks: React, Angular, Nextjs, Redux, Tailwind CSS, Moment.js, Node.js
Tools / Platforms: Git/Github, VSCode, Figma

PROJECTS / OPEN-SOURCE

Glyphh | [Link](#)

Node

Glyphh is a tool to read EPUB files in the terminal with a beautiful user experience.

Scripty | [Link](#)

Node, VSCode Extension API

Scripty is a powerful VSCode extension that streamlines the execution of package.json scripts. It simplifies your development workflow by providing an intuitive dropdown menu to run scripts effortlessly.

Issue Hunter | [Link](#)

React, Github API

IssueHunter is a powerful GitHub issue search tool designed to streamline your issue-hunting process. Whether you're a coding wizard or a project management sorcerer, IssueHunter is here to assist you in discovering GitHub issues with remarkable efficiency.

HONORS & AWARDS

- Bravo Award, Received in recognition of ownership and outstanding performance in delivering changes in Biovitals Annotations project. Also acknowledged as a versatile developer with expertise in React and Angular