

NEWTON FERNANDIS

Software Engineer

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GitHub | Portfolio | Linkedin | Blog

EXPERIENCE

Biofourmis | Software Engineer Bangalore, India | April 2024 - Present

- **Led development** of the **Trends View** feature, integrating dynamic graph displays with vital patient metrics such as Heart Rate (HR), Blood Pressure (BP), and Blood Oxygen Saturation (SpO2). This enhancement provided users with valuable visual insights into patient health data.
- **Optimized data fetching** and performance for the Trends View feature by proposing server-side graph generation, resulting in a **20.8% reduction in load time** and a **38.4% decrease in processor usage**.
- Contributed to the **Care @ Home** project by developing a **dynamic form system** driven by configuration, allowing patients to easily submit their medical history.
- **Refactored** critical parts of the codebase, improving state management and API interactions for better scalability and maintainability.
- **Collaborated cross-functionally** with product, design, and QA teams to ensure smooth feature rollouts and meet business requirements.

Biofourmis | Associate Software Engineer Bangalore | August 2022 - April 2024

- **Developed a comprehensive design system** using **Storybook**, creating reusable components to ensure consistency across the product.
Took **ownership of the front-end** for the **Biovitals Annotation** project, a RhythmAnalytics tool built with **Vue.js**. This project streamlined the annotation of vital health data, contributing to improved healthcare monitoring.
- **Recognized with a Bravo Award** for exceptional ownership and performance in enhancing and maintaining the **Biovitals Annotation project**.

Biofourmis | Software Engineering Intern Bangalore | June 2022 - August 2022

- Focused on understanding and implementing key software design principles such as **SOLID**, **Object-Oriented Programming (OOP)**, and **Design Patterns** to improve code quality.
- Gained hands-on experience in debugging and optimizing web applications, contributing to the teams productivity by resolving key issues.
- Collaborated closely with senior engineers, gradually building a foundation in full-stack development through practical tasks and real-world projects.

PROJECTS / NPM PACKAGES

Duality - Comparison Slider Component | NPM [↗](#) | GitHub [↗](#) React, TypeScript

Duality **React** component that allows users to compare "Before" and "After" content using a smooth, adjustable slider. This component can showcase image transformations, design differences, or any content that benefits from direct comparison.

Orbital - Satellite Tracker Using TLE Data | Live [↗](#) | GitHub [↗](#) NextJS, TypeScript

A satellite tracking app powered by TLE (Two-Line Element) data. With Orbital, you can visualize satellites in real-time, check out their trajectories, and add your own TLE data to track custom objects in orbit

Glyphh | NPM [↗](#) | GitHub [↗](#) Node

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

Issue Hunter | Live [↗](#) | GitHub [↗](#) React, GitHub API

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

SKILLS

Programming Languages: JavaScript, Typescript, CSS, HTML, C++
Libraries/Frameworks: React, Nextjs, Redux, Tailwind CSS, Node.js, Vue3
Tools / Platforms: Git/Github, VSCode, Figma, AWS
Databases: MongoDB

EDUCATION

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

Mangalore, India
Aug 2018 - Jun 2022

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