

Pallavi Khedle

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🧠 Skills

JavaScript, React-Native, React, Redux, Context API, React Query, Zustand, TypeScript, JQuery, D3.js, Ionic, Python, AWS, Figma, Firebase, XCode, Android Studio, Realm, SQL, MongoDB, Mongoose

👛 Professional Experience

Relyon softtech LTD, Software Development Engineer July 2020 – July 2022 | India

- Engineered cross-platform desktop and native applications for the company's product portfolio in sales and finance.
- Implemented Client-side state management, caching, lazy loading, and other crucial mechanisms to improve real-time data synchronization, resulting in a 35% reduction in server load and a 45% improvement in website speed.
- Reduced server-client latency by minimizing the key-value terms by 30% while maintaining lossless JSON structure.

Technologies: React and React-Native, TypeScript, Cross-Platform applications, API Integration and Optimization

3E Software Solutions, Hybrid Application Developer May 2019 – July 2020 | India

- Spearheaded intrusive web application development for diverse industries, integrating Firebase for real-time push notification features and language translation, now integral to Defacto's suite.
- Worked extensively on optimizing multiple application's performance, resulting in a notable 60% improvement.
- Successfully revamped multiple mobile applications, implementing modern design principles and responsive layouts.

Technologies: React-Native, Ionic, Code Migration and Back Support, Figma, Application Optimization.

📁 Projects

Mind Pyramid, Sound to your meditation December 2023 – present

- A native app to promote and help with guided meditation, providing users with a calming and immersive experience with podcasts, customizable timers, and serene audiovisuals addressing mental health and sleep issues.
- Embedded a self-productivity tracker to practice this as a habit, win streaks, get rewards, and reach milestones.

Technologies: React Native, Redux, Video Streaming, RESTful, Material UI, MongoDB.

ReRoute, Optimal Delivery Route System ☑ November 2023 – December 2023

- Developed an application for the simulation of finding the optimal delivery path across nodes using Travelling Salesman Problem Algorithms.
- Implemented a feature allowing users to explore and compare different methods for finding the best paths, making it easier to choose the most efficient delivery route.

Technologies: React, Mapbox, web worker, openstreetmap

Keyword Krawler, SEO Boosting Keyword Scraper ☑ October 2023 – November 2023

- Designed a tool that aids end users in finding the top-ranking keywords on any particular website, providing insights and suggestions to optimize the content for better SEO rank.
- Implemented suffix arrays for split-second response times for scalable stateless cache-enabled microservices.

Technologies: React Js, Python, Docker & Swarm, Redis, Microservices & Proxy servers.

Civic-Guardian, Emergency Route Planning Tool ☑ September 2023 – October 2023

- Developed a cross-platform application to demonstrate a use case of Floyd Warshall's algorithm in real-world navigation by enhancing Google Maps routes for efficient decision-making and reducing end-user decision fatigue.
- Implemented a custom variant of the Floyd Warshall algorithm where the obvious shortest path is manipulated with heuristics from historic traffic weights to derive better alternative paths.

Technologies: React Native, Google APIs, D3js, Python

🎓 Education

California State University, Fullerton, August 2022 – May 2024 | United States
Master of Science in Computer Science

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, August 2014 – May 2018 | India
Bachelor of Engineering