



VIGNESHWARAN N

Senior Frontend Engineer

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ABOUT ME

Full Stack Engineer with 9+ years of experience building scalable, high-performance web and mobile applications using React, Next.js, Node.js, and NestJS. Skilled in system architecture, API development, frontend engineering, and cloud deployment with PostgreSQL, AWS, GCP, and Docker. Passionate about delivering clean, maintainable, and future-ready software solutions

EDUCATION

Bachelor Of Engineering (Computer Science)

WORK EXPERIENCE

KNOCKSENSE MEDIA PVT LTD

SENIOR FRONTEND ENGINEER • [MAR 2022 - NOW]

- Spearheaded the development and management of full-featured products, including an events booking, media, and fantasy gaming platform.
- Built and maintained three React-based web applications and two cross-platform mobile apps using React Native for seamless performance on iOS and Android.
- Integrated features such as video streaming, deep linking, and analytics to enhance user engagement and retention.
- Developed and deployed backend services for an online fantasy gaming platform using NestJS and PostgreSQL, ensuring scalability, performance, and alignment with business objectives.

OPTISOL BUSINESS SOLUTIONS PVT LTD

SENIOR LEAD ENGINEER • [APR 2019 - MAR 2022]

- Architected and maintained multiple React Native applications using best practices and modern technologies to ensure scalability and maintainability.
- Led a team of four developers, managing project timelines, mentoring members, and guiding them through complex feature implementations.
- Enhanced team productivity and code quality by establishing structured code reviews and standardized development workflows

LEAD ENGINEER

• [JUL 2018 - APR 2019]

- Developed 10+ native Android and cross-platform applications using React Native, delivering efficient and scalable solutions for diverse client requirements.
- Specialized in hybrid app development, leveraging React Native's flexibility to reduce development time and achieve native-like performance across platforms.

SOFTWARE ENGINEER

• [JUL 2016 - JUL 2018]

- Designed and developed native Android applications from concept to deployment, focusing on intuitive UI/UX, core functionalities, and seamless integration of third-party SDKs.
- Implemented Android applications using the MVP (Model-View-Presenter) architecture and Dagger for dependency injection to ensure modular, maintainable, and testable code.
- Created and integrated robust RESTful APIs, enabling smooth and efficient data exchange between client and server systems.

OPTISOL BUSINESS SOLUTIONS PVT LTD

ANDROID DEVELOPER • [JUL 2015 - JUL 2016]

- Designed, developed, and deployed Android applications with essential features and intuitive interfaces, tailored to client requirements.
- Integrated RESTful APIs to connect applications to back-end services, enhancing data accessibility and synchronization across platforms

CORE SKILLS / TECH STACK

Frontend :	React, Next.js, Redux Toolkit, Zustand, TailwindCSS, HTML5 CSS3, JavaScript (ES6+) TypeScript
Mobile Development :	React Native, Native Android (Kotlin/Java), UI/UX Design Hybrid App Development, Expo, React Navigation
Backend :	Node.js Ecosystem: Express.js, NestJS, GraphQL Python Ecosystem: FastAPI
Databases :	PostgreSQL, MySQL, SQLite
Tools & Platforms:	Docker, Firebase, AWS, GCP, CI/CD, Git, Agile Workflows

PROJECT PORTFOLIO

#1 Knocksense

Projects:

- **Knocksense Admin Panel**
Technologies: React, Redux Toolkit
- **DreamVideos Admin Panel & API**
Technologies: Next.js, TailwindCSS, NestJS, PostgreSQL
- **Knocksense Mobile App**
Technologies: React Native, Expo, Redux Toolkit
- **DreamVideos Fantasy Game App**
Technologies: React Native, Expo, Redux Toolkit, Zustand, Nativewind

Description:

- Built a local news and events application with an integrated ticket booking system from the ground up.
- Implemented features such as Redux state management, In-App Push Notifications, Deep Linking, and HLS video encoding/player for enhanced media streaming and engagement.
- Designed and developed the DreamVideos Fantasy Game Platform, handling frontend (mobile & web) and backend services, enabling users to participate in fantasy contests and interactive video-based challenges.
- Delivered robust, scalable, and production-ready applications ensuring smooth performance and intuitive user experience.

App Links:

- App Store: [Knocksense iOS App](#)
- Play Store: [Knocksense Android App](#)

Web Links:

- [Events Portal](#)
- [Admin Dashboard](#)
- [Vendor Portal](#)

#2 LitPic, USA

Technologies: React Native, Expo, Redux Toolkit, AWS S3

Description:

- Developed a short video creation and sharing app, allowing users to record, edit, and publish 30-second clips with music, filters, and speed controls.
- Implemented features for music selection across genres, video effects, and editing tools such as stickers and text overlays.
- Integrated media upload and streaming with AWS S3 for optimized performance and scalability.
- Delivered smooth cross-platform functionality with rich UI/UX for a social media-style experience.

App Links:

- App Store: [LitPic – Exclusive Social](#)

#3 Beacon Emergency Dispatch, USA

Technologies: Flutter, Firebase, REST APIs, Google Maps SDK

Description:

- Developed the Beacon Mobile App, a companion to the Beacon Emergency Dispatch Platform, enabling first responders to receive real-time emergency alerts from local call centers.
- Implemented GPS-based dispatch coordination, multi-language support, and offline-first data handling for field reliability.
- Enhanced the legacy SMS dispatch system into a fully interactive mobile coordination platform with improved communication and situational awareness.

App Link:

- Play Store: [Beacon Emergency Dispatch](#)

#4 Palmetto Solar, USA

Technologies: React Native, Redux, WebSockets, GraphQL, Firebase

Description:

- Built the Palmetto Solar App, empowering users to track and compare solar energy production and home consumption in real-time.
- Integrated live energy monitoring, graph-based data visualization, and chat support for instant assistance.
- Implemented GraphQL APIs for efficient data querying and WebSocket integration for live updates.
- Delivered a highly optimized and responsive interface ensuring smooth performance on both iOS and Android.

App Links:

- Play Store: [Palmetto Home](#)
- App Store: [The Palmetto App](#)

#5 Diaper Fit Finder (P&G)

Technologies: Android (Java), ML Kit, TensorFlow Lite, OpenCV

Description:

- Developed an AI-powered app for Pampers (Procter & Gamble) that helps parents find the perfect diaper fit for their babies.
- Integrated machine learning to detect baby hip size via image capture and generate accurate diaper recommendations.
- Enabled users to broadcast and share media directly through the app.
- Utilized TensorFlow Lite and OpenCV for efficient on-device processing and image analysis.

App Link:

- [Diaper Fit Finder by Pampers](#)