

# Thanooj PelamKulangara

Full Stack SaaS Engineer - React | Node.js | PostgreSQL | MongoDB | AWS

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## Profile Summary

Full-Stack Engineer with 2+ years of professional experience building scalable SaaS platforms, including 0→1 product ownership in startup environments. Experienced in developing modern frontend applications using React.js and Next.js alongside robust backend systems built with Node.js, Express.js, PostgreSQL and MongoDB.

Skilled in building responsive user interfaces, reusable component architectures and efficient API-driven applications, while also designing secure REST APIs, role-based access control systems and real-time application architectures.

Experienced in designing full-stack system architecture, database design and AWS (EC2) infrastructure, improving API latency, onboarding efficiency and overall system reliability across healthcare, SaaS, fitness and e-commerce platforms using clean architecture, SOLID principles and modern testing practices.

## Skills

<b>Frontend</b>	: React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS.
<b>State Management</b>	: Redux Toolkit, Zustand, React Context.
<b>UI Engineering</b>	: Component-based architecture, reusable UI systems, responsive design, accessibility basics, design-to-code workflows.
<b>Frontend Performance</b>	: Code splitting, lazy loading, rendering optimization, efficient API consumption, caching strategies.
<b>Backend Development &amp; APIs</b>	: Node.js, Express.js, REST APIs, JWT Authentication, WebSockets, Redis.
<b>Database</b>	: PostgreSQL, MongoDB, MySQL.
<b>Architecture &amp; Practices</b>	: MVC architecture, SOLID principles, clean code, modular folder structure, real-time systems, caching, error handling, performance tuning, Agile methodology, Data Structures.
<b>DevOps &amp; Deployment</b>	: AWS EC2, Nginx, PM2, CI/CD concepts and deployment workflows, environment configuration, logging and monitoring.
<b>Integration</b>	: Stripe, RazorPay, Cloudinary, Nodemailer, PayPal, Google OAuth, Multer, Socket.IO, Firebase Auth, Mapbox, Google Maps API, WhatsApp API.
<b>Tools &amp; Version Control</b>	: Git, GitHub, Postman, Swagger, Figma, Moon Modeler (database modeling).
<b>Testing</b>	: Jest, Supertest, React Testing Library, unit testing, integration testing, API testing.
<b>Additional Exposure</b>	: Docker basics, Google Cloud Platform (GCP).

## Work Experience

### MedB Connected Care LLP

Founding Software Engineer

January 2025 – Present

Remote - India

- Built and operated a **production-grade healthcare SaaS platform from scratch (0→1) (MedB)**, owning architecture, development and live operations independently within a startup environment.
- Designed and implemented **role-based React.js application interfaces and dashboards** for doctors, patients, clinics and administrators with subscription-aware user flows.
- Served as the **primary technical decision-maker**, defining system architecture, database strategy, authentication mechanisms and deployment workflows without external technical supervision.
- Architected a scalable full-stack system using **React.js, Node.js and Express**, implementing multi-tenant subscription-based access control across doctors, patients, clinics and administrators.
- Designed a hybrid persistence architecture using **PostgreSQL** for transactional consistency and **MongoDB** for audit logging and operational visibility, separating relational and high-volume workloads efficiently.
- Developed secure **REST APIs** with JWT authentication and role-based authorization supporting 4+ user tiers and subscription-aware permissions.
- Implemented caching strategies and query optimizations, reducing average API response latency by **35%** and improving system responsiveness under load.
- Engineered real-time communication infrastructure using **WebSockets** with multi-channel notifications (in-app, email, WhatsApp) to ensure reliable communication workflows.
- Optimized onboarding workflows, reducing new user setup time by **40%** and improving user activation efficiency.
- Established centralized logging, monitoring and audit visibility to improve debugging efficiency and operational reliability.
- Deployed and managed production infrastructure on **AWS EC2** using **Nginx and PM2**, maintaining **>99% uptime** with stable failure-recovery mechanisms.

## Mcabee Technologies

MERN Stack Developer

June 2024 - November 2024

Remote - India

- Developed and enhanced **React.js and Next.js frontend modules** across public product pages and admin dashboards for a global social matchmaking platform.
- Contributed to scalable backend services using **TypeScript, Node.js, Express.js and MongoDB**.
- Designed secure **REST APIs** with JWT authentication supporting both web and Android clients.
- Implemented **Redis-based caching and Cloudflare CDN**, reducing repeated database load and improving system performance.
- Developed scheduled background jobs using **cron** to automate recurring platform workflows.
- Integrated **Firebase** for push notifications and real-time messaging features.
- Supported production deployment and maintenance on **AWS EC2**, ensuring stable performance under live traffic.

## Sixphrase by Veranda Learning

MERN Stack Trainer (Contract – 1 Week Program)

June, 2024

KCT, Coimbatore - India

- Delivered a 1-week intensive **MERN stack training program** to 50+ engineering students across multiple disciplines.
- Mentored students in designing and deploying full-stack applications using **React.js, Node.js, MongoDB, Express and JWT-based authentication**.
- Guided teams through end-to-end project architecture, debugging workflows and deployment best practices.
- Improved student project completion and deployment readiness within the program duration.

## StepzFit - StepzFit Wellness

Freelance Full-Stack Developer

November 2023 - April 2024

Remote - India

- Designed and launched a **Progressive Web Application (PWA)** for personalized fitness and nutrition tracking with scalable, performance-oriented backend design.
- Developed the application using **React.js** (frontend) and **Node.js + Express** (backend), implementing secure **JWT authentication** and **Firebase OTP-based login**.
- Integrated **Stripe subscription billing** and **Google OAuth**, enabling secure payments and frictionless onboarding.
- Built real-time chat and activity updates using **WebSockets**, enhancing user interaction and responsiveness.
- Deployed and managed production infrastructure on **AWS EC2** with Nginx and PM2, ensuring stable runtime performance and environment configuration control.

## Education

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### MERN Stack Development

Self-Taught

Kerala - India

2022 - 2023

### Bachelor of Engineering in Mechanical Engineering

Ghousia College of Engineering (VTU)

Ramanagara, Karnataka - India

2010 - 2014