

Karthik K

Palakkad, Kerala, India | karthikk7293@gmail.com | +91 7293103936
<https://www.linkedin.com/in/karthik-thedeveloperdot> | <https://github.com/Karthikk7293>

Summary

Software Development Engineer with **4+ years of experience** building and scaling production-grade web applications. Strong background in **full-stack development, system redesign, database schema design, and performance optimization**. Hands-on experience with Next.js, TypeScript, NestJS, Node.js, Redis, MongoDB, PostgreSQL, Firestore, AWS, and payment workflows. Currently own an internal operations platform of 55+ modules end-to-end — architecture, backend, frontend, design system, and its Android app — alongside the consumer web platform. Comfortable owning features end-to-end in startup and product-driven environments.

Core Skills

Languages: TypeScript, JavaScript, Python, Java

Frontend: React.js, Next.js (App Router), Tailwind CSS, Zustand

Backend: Node.js, NestJS, Express.js, Next.js API Routes, Django (REST APIs)

Database: MongoDB, PostgreSQL, Firestore, SQL

Caching & Search: Redis, Meilisearch

Payments: Razorpay, PayPal, Bank & Wallet APIs

Cloud, DevOps & Infrastructure: AWS EC2, AWS S3, Docker, GitHub Actions, Vercel, Render

Auth, Storage & BaaS: Firebase (Auth, Firestore, Cloud Storage, FCM)

AI & Automation: Anthropic Claude API, OpenAI, OCR pipelines, Puppeteer

Mobile: Capacitor (Android build, signing & release)

Tools: Git, GitHub, Figma

Experience

Software Development Engineer 1, Spacez Pvt Ltd – Bengaluru

May 2025 – Present

- Designed and shipped **Spacez PMS**, the company's internal operations platform — **55+ modules** covering bookings, calendar, pricing, invoicing, expenses, cash ledger, issues, media and communications — with a **per-section role-based access model**.
- Leading the **end-to-end redesign of the Spacez web platform (spacez.co)**, improving maintainability, scalability and user experience, using **Next.js rendering strategies (SSR, SSG, ISR)** for load time and SEO.
- Designed and proposed a **new database schema** and a **unified architecture** spanning web, mobile app and internal tools, enabling cleaner domain modeling and more efficient data operations.
- Built the **finance layer**: an invoicing engine (B2B proforma/tax invoices, canonical numbering, server-side PDF generation) and a spend platform that ingests a live third-party wallet webhook feed, derives wallet balances, and reconciles **7 spend sources into a single ledger**.
- Shipped **AI-assisted document verification** — expense bills are OCR'd and validated against claimed amounts via the Claude API, with cached per-document results.
- Built external **owner and franchise portals** with scoped money views, shared statements, per-owner access control, and a staff-side request queue on a shared conversations engine.
- Delivered consumer features end-to-end: **post-booking add-on purchase flow, invite-to-join bookings** with short links and rich share previews, coupon & pricing engine, and **funnel analytics** with anonymous-to-customer identity stitching.
- Authored the **PMS design system** plus a custom **design-lint rule set** enforced in prebuild and pre-commit, making design-system violations fail the build.
- Shipped the **caretaker Android app** as a Capacitor shell over the web surface, including FCM push delivery and an in-console push audit trail.
- Collaborating with leadership and stakeholders on technical decision-making and long-term platform strategy.

Freelance MERN Stack Trainer, One Team Solutions Edtech Pvt Ltd — Kochi

Jan 2025 – Nov 2025

- Designed and delivered industry-oriented **MERN stack training** focused on real-world architecture, API design and scalability.
- Mentored developers on REST APIs, database modeling, authentication and integrations.

Associate Frontend Developer, Auxxweb Solutions – Calicut

Jun 2024 – Dec 2024

- Built **EnConnect**, a multi-tenant business profile platform with tiered templates.
- Implemented role-based admin panels and a scalable frontend architecture supporting onboarding at scale.

Full-stack Developer, Revontulet Solutions – Bengaluru

Jul 2022 – Mar 2024

- Led the end-to-end redesign of fintech platforms including **IndianCashback**, modernizing both frontend and backend architecture.
- Improved overall application performance by **75%** by introducing **Redis caching** and **Meilisearch**.
- Reworked database schemas for higher transaction throughput, and built admin panels for users, transactions and offers.
- Integrated multiple **payment gateways and bank APIs** for a virtual card / wallet web application.

Key Products Built

Spacez PMS & CashBook (internal platform)

in-house

- 55+ module operations console with role-based access, invoicing, a multi-source expense ledger, wallet webhook ingestion, AI proof verification, and external owner/franchise portals.
- Tools Used: Next.js (App Router), TypeScript, Firestore, Firebase Admin, Zustand, Tailwind, Claude API, Recharts, React-PDF

Spacez.co

www.spacez.co

- Scalable web platform redesigned for improved performance and maintainability, using Next.js with modern rendering strategies (SSR, SSG, ISR).
- Tools Used: Next.js, TypeScript, Firebase, Tailwind, Razorpay payment gateway

Indiencashback

www.indiencashback.com

- Re-designed the application and its admin panel with new features and business logic.
- Tools Used: Admin side: React.js, Express (TS), MongoDB, Bootstrap; User side: Next.js (TS), Nest.js, Tailwind, MongoDB, Redis, Meilisearch, Razorpay payment gateway

ICB Instantpay web app

card.indiencashback.com

- Developed a virtual card / wallet web application with InstantPay payment-bank API support.
- Tools Used: Next.js, Nest.js, MongoDB, Tailwind

ICB Influencer web app

- Designed and developed the ICB influencer community portal for collaborating influencers.
- Tools Used: Next.js, React.js, Express.js (TS), MongoDB, Tailwind, Bootstrap

Split App (money management web app)

- Money management web app to split and manage money for individuals and groups, with chat features and a minimal design.
- Tools Used: Next.js, MongoDB

EnConnect web app & Admin panels

www.enconnect.in

- Collaborative platform enabling multiple businesses to showcase their profiles using customizable templates ranging from basic to premium tiers.
- Tools Used: React.js, Express.js (TS), MongoDB, Bootstrap, Tailwind

Education

Scaler Academy – Software Development Engineer (SDE)

- Advanced DSA, Advanced SQL; High-Level Design (HLD) and Low-Level Design (LLD)

Brototype – Full-stack Development (MERN)

Dec 2021 – July 2022

IPT And GPTC – Diploma in Electronics Engineering

June 2018 – Oct 2021