

Raj Seth

Full Stack Product Engineer

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Professional Summary

Full stack engineer with **3 years of experience** building and owning production systems end-to-end, from PostgreSQL schema and API design to scalable web applications and mobile applications in React.js, Next.js, and React Native. Works equally as a product engineer and software engineer, having led engineering teams across a HIPAA-compliant healthcare platform and a real estate appraisal management system, and published **8 mobile applications**. Independently builds AI-native products end-to-end, including LLM-powered assistants, automated data extraction pipelines, and on-device transcription, applying the same production rigor to founder-level ventures.

Professional Experience

Full Stack Developer *Flynaut Infotech Pvt. Ltd*

May 2023 - May 2026

- Led a team of 4 engineers for 6 months on a HIPAA-compliant healthcare platform (React.js, Node.js, Bun.js, PostgreSQL), setting architecture patterns, data model conventions, and code review standards while owning Agile sprint planning and production issue diagnosis using internal monitoring and logging tooling.
- Designed PostgreSQL schemas and ER diagrams, implemented OAuth 2.0 and RBAC, and optimized query performance through indexing and N+1 query elimination in a schema-driven drag-and-drop form builder powering 180+ configurable workflow templates, validated through Jest and Supertest API test coverage.
- Integrated Transformer-based NLP models in Python to power an 8-language translation layer for a Node.js and React Native real estate app.
- Led a team of 2 developers building an ADA-compliant EdTech platform in React Native, covering courses, quizzes, and downloadable resources and certificates for iOS and Android.
- Built a React Native iOS and Android app for a sustainability-focused e-commerce product, optimizing load time and bundle size across both platforms.
- Built two React Native modules (vendor and end-user) for a food marketplace app, implementing Stripe vendor onboarding and payments, order management, and Google Maps-based live tracking and directions.
- Built a separate real estate appraisal management platform with four interdependent role-based modules (Client, Appraiser/Reviewer, Inspector, Admin), covering property listings, the full appraisal order lifecycle, counter-offers, and licensing and qualification workflows with document uploads.
- Implemented analytics dashboards with React ApexCharts, Google Maps-based property geolocation, and MUI DataGrid views for orders and users on the appraisal platform, backed by Formik/YUP multi-step forms, canvas-based e-signature capture, and Socket-driven real-time messaging and notifications.

Freelance Software Developer *Self Employed*

May 2023 - Present

- Delivered multiple freelance software projects with employer approval alongside full-time employment, including a job marketplace, a React Native subscription application, and Progressive Web Apps.
- Built a job marketplace platform (Letsryl) supporting 150+ job listings using Next.js, Node.js, and PostgreSQL, covering REST API design, applicant workflows, and an admin dashboard, deployed on AWS (EC2, S3, RDS) with Docker-based local development.
- Delivered React.js real estate PWAs with offline functionality and optimized, responsive interfaces, storing property listings data in MongoDB, and a React Native subscription app with Stripe billing and Firebase BaaS.
- Built an Equal Employee Assistance Program (EEAP) mobile app in React Native for iOS and Android, with Firebase authentication, Stripe billing, real-time messaging and notifications, and image uploads.
- Implemented real-time audio and video communication using WebRTC (Agora SDK), including media streaming, room management, and live user-state handling.

Frontend Developer *Thoughtle*

September 2022 - April 2023

- Developed financial dashboards for two fintech SaaS products (FinanzOS, Reconzile) in Next.js and TypeScript, integrating 5 ERP endpoints across Tally and Zoho for real-time reconciliation reporting.
- Implemented a reusable component library and integrated Firebase Firestore and Authentication, improving load performance.
- Built cashflow and trend visualization charts for the reconciliation dashboards, and optimized rendering performance for large transaction datasets using virtualized tables and pagination.

Projects

Backend Engineering *AI-Native Goal Finance Platform*

Personal Project

- Built the backend for an AI-native platform matching users to government funding schemes based on their profile and goals, using Bun.js, Express, and MongoDB.
- Implemented an LLM-powered chat assistant (OpenAI and Gemini) with entity-scoped context grounding across goals, opportunities, applications, and documents, supporting both standard and SSE-streamed responses.
- Built an automated crawler and AI extraction pipeline that scrapes opportunity sources, parses raw content into structured fields with per-section confidence scoring, and routes low-confidence or duplicate results to a human review queue with field-level diffs and version history.
- Built an AI-driven opportunity ranking system generating match scores and recommendation reasoning, and an AI-generated strategy engine producing funding-mix, timeline, and probability-score outputs.
- Designed a RBAC-secured admin platform with async job pipelines for AI-powered content translation and intelligence monitoring.

Real-Time Research Interview Assistant [Pulse HUD](#)

Personal Project

- Architected a three-layer real-time HUD product (React 19 PWA client, Express/PostgreSQL cloud server on GCP Cloud Run, Electron desktop app with embedded SQLite) sharing one client codebase across fully offline and cloud-connected deployments.
- Built live transcript streaming over WebSocket with speaker ID and timecodes, and integrated an LLM-powered follow-up prompt system (OpenAI primary, Gemini fallback) grounded on rolling transcript context, with a rule-based fallback tier ensuring the system never goes empty.
- Ran a locally embedded Whisper model (ONNX runtime via Transformers.js) for on-device audio transcription with no external API dependency, with an optional cloud-Whisper upgrade path on desktop.
- Implemented JWT-based authentication, session tagging with keyword-based signal detection, and full session export to JSON/CSV.

Real-Time Chat and Video Platform [TalkNWork](#)

Personal Project

- Built a full-stack real-time chat platform (MERN, Socket.io) supporting one-on-one and group messaging, HD voice/video calling via Agora RTC, and a live multiplayer drawing-and-guessing game.
- Designed a layered backend pipeline (controller, Zod validation, service, Mongoose model) with a shared error-handling wrapper and structured logging, and implemented JWT authentication via httpOnly cookies with bcrypt password hashing.
- Built real-time features entirely on Socket.io, including direct-socket message delivery and in-memory multiplayer game rooms with server-driven turn and timer logic, keeping ephemeral game state out of the database by design.
- Backed the platform with an integration test suite (Vitest, Supertest, in-memory MongoDB) covering auth, group, and messaging flows end-to-end.

React Native Mobile App [PokeExplorer](#)

Personal Project

- Built a React Native Pokemon companion app integrating the Gemini API to generate structured, per-Pokemon content including lore, quizzes, interactive stories, and battle strategy tips from live JSON responses.
- Implemented Firebase Authentication, FCM push notifications, and local notifications, with React Query managing a scheduled cache and refresh cycle against PokeAPI and Gemini responses.
- Built persistent tab-state navigation, a swipeable browsing interface, and a wishlist/search system backed by bottom-sheet interaction patterns.

Education

B.Tech, Computer Science [KIIT University](#)

Bhubaneswar, Odisha, India 2022 - 2026

Coursework included data structures and algorithms, database management systems, operating systems, and software engineering principles.

Skills

- **Languages:** JavaScript, TypeScript, Python, HTML5, CSS3
- **Frontend:** React.js, Next.js, React Native, Redux, React Query, Tailwind CSS, Material UI, MUI DataGrid, ApexCharts, Formik, YUP
- **Backend:** Node.js, Express.js, Bun.js, REST APIs, WebSocket, Socket.io, Zod, OAuth 2.0, RBAC
- **Databases:** PostgreSQL, MongoDB, Redis, SQLite
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda), GCP Cloud Run, Vercel, Electron, Docker, CI/CD (GitHub Actions), Firebase
- **Architecture:** System Design, Scalable Architecture, Microservices, ER Diagrams, Performance Optimization
- **Testing:** Jest, Vitest, Supertest, Unit, Integration & E2E Testing
- **AI / GenAI:** OpenAI API, Gemini API, LLM Integration, Transformer Models, Whisper (ONNX), NLP, OCR
- **Development & Workflow:** Claude Code, Git, GitHub, Jira, Agile/Scrum, Code Review, Postman
- **Integrations:** Stripe API, Google Maps API, Firebase Push Notifications, WebRTC (Agora SDK), Third-party API Integration