

Rahul Tank

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SUMMARY

Full-stack engineer with 5+ years of experience delivering production web platform apps across healthcare, supply chain, and automotive domains. Now building Generative-AI products end-to-end — hand-rolled SSE token streaming, RAG over pgvector, and Zod-validated structured LLM output. Ships features from architecture to deploy with 90%+ test coverage and near-zero production regressions; comfortable owning client communication and mentoring engineers.

TECHNICAL SKILLS

Frontend	React.js, TypeScript, JavaScript, Redux, Zustand, TanStack Query, React Router, Tailwind, Streaming UI, React Native, Angular
Backend	Node.js, Express, Fastify, REST, Redis, BullMQ, JWT auth, SSE Streaming
Database	PostgreSQL, PgVector, Drizzle, MongoDB, MySQL
Gen AI	LLM API Integration, RAG, AI Agents, LangGraph, Langfuse, Embeddings, Vector Search, Prompt Engineering
DevOps & Tooling	Docker, Github Actions, CI/CD, Zod, AWS, Puppeteer, GitHub Copilot (Certified)

WORK EXPERIENCE

Senior Software Engineer (SSE) - Eluminous Technologies Jul 2024 - present

- Enhanced a production web automation platform with a 2-member team, improved CAPTCHA solve rate to 95%+ across 100+ concurrent requests through iterative optimization of an integrated ML pipeline.
- Contributed to a multi-module dental clinic SaaS dashboard with a 2-engineer team — built reusable React components and integrated Twilio, and Firebase, reducing average feature delivery time by 40% from several weeks.
- Drove frontend stability on RSPO-compliant palm oil supply chain platform — increased test coverage to 90%, reducing client-reported bugs from 4–5 per sprint to near-zero within 2–3 sprints across all assigned modules.
- Collaborated directly with client stakeholders to translate ambiguous requirements into detailed specs before development — eliminating mid-sprint rework and consistently delivering UI features on schedule across multiple release cycles.

Senior Software Engineer (SSE) - The Gateway Group Jan 2021 - Jul 2024

- Worked full-stack on a cross-platform vehicle aftersales platform serving 150+ organizational users — as the sole mobile engineer building React Native. while also developing Node/Express REST APIs over PostgreSQL to digitize technician workflows including approvals, job tracking, and reducing reliance on manual paperwork.
- Integrated camera module and push notifications (FCM), and worked with and extended the existing Microsoft Active Directory authentication — expanding the feature set with zero critical regressions.
- Managed App Store and Google Play deployment responsible for release apps, submission process, and resolving critical pre/post-launch issues.
- Drove TDD adoption and mentored 3 junior engineers over 1 year — slashing codebase duplication from 40% to under 5% and maintaining green SonarQube quality gates for 3+ consecutive quarters.
- Acted as technical point of contact for client requirement gathering, live demos, and post-release root cause analysis across both mobile and Angular web modules.

PROJECTS

Bot-Software - Web Automation Platform

Tech Stack : TypeScript, Node.js, Fastify, Puppeteer, Python, MySQL, AWS

- Enhanced a production web automation platform — integrated a Python-based ML CAPTCHA solver into

Node.js pipeline and implemented Node.js cluster architecture to handle 100+ concurrent requests, improving success rate to 95%+.

- Designed a service-oriented backend using Fastify, JWT, RBAC, dependency injection (Awilix), repository pattern, and TypeORM for database management.
- Implemented client lifecycle tracking (pending → success / failed / already-booked) with auto-screenshot capture and report storage on AWS S3.

Prisma — Palm Oil Supply Chain (RSPO Compliance Platform)

Tech Stack : React, TypeScript, Jest — Monorepo

- Maintained RSPO-compliant supply chain frontend; pushed test coverage to **90%** and resolved critical production incidents with zero repeat occurrences.
- Built custom hierarchical upload and multi-select components with advanced filtering and conditional-disable logic to satisfy complex regulatory business rules.
- Refactored architecture to monorepo standards, improving cross-team code sharing and reducing module integration time.

Vehicle Aftersales Management System

[Play Store](#)

Tech Stack : React, React Native, Redux, Angular, TypeScript, Node.js, Express, PostgreSQL

- Developed a comprehensive application for vehicle aftersales, integrating appointment scheduling, workflow management, and work order tracking with React and Angular frameworks, ensuring a seamless user experience.
- Built backend REST APIs in Node.js/Express backed by PostgreSQL — CRUD for appointments, dealers, and attachment uploads, plus an additional-work module (parts, packages, and approval submission) — writing SQL queries directly with some TypeORM.
- Worked with and extended Microsoft Active Directory authentication for robust, secure access control.
- Engineered a mobile application with diverse functionalities including web view, camera module integration, and push notification integration, and successfully deployed across various platforms for widespread accessibility.

DocChat - RAG Application

[DocChat](#)

Tech Stack : React 19, TypeScript, Express, Gemini, pgvector, Neon Serverless, Postgres, SSE

- Built a grounded RAG assistant achieving a 0% hallucination rate on out-of-scope queries via strict grounding prompts and citation extraction.
- Implemented the full ingestion pipeline: multi-format parsing (PDF/MD/TXT), recursive chunking (512 tokens, 50-token overlap), and batch embedding via gemini-embedding-001 stored in pgvector.
- Wired a real-time SSE endpoint (retrieval → generation → citation) with live UI controls for topK and cosine-similarity threshold — tuned accuracy from 43% to 70% across a 12-case test set.

EDUCATION

B.Tech in Information Technology

Charotar University of Science and Technology

2017 – 2021

CGPA: **8.64**

CERTIFICATIONS & ACHIEVEMENTS

- **GitHub Copilot Certified** — issued by GitHub
- Promoted to **Senior Software Engineer** after completing the Gateway Internal Fast Track (GIFT) program
- Contributed **500+ technical articles** to GeeksforGeeks
- NPTEL — Programming, Data Structures & Algorithms Using Python