

PRINCE BHUT

Full-Stack Engineer · Backend-Focused · Distributed Systems

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PROFESSIONAL SUMMARY

Full-stack engineer with 4+ years of production experience architecting scalable backend systems and high-performance APIs. Deep expertise in NestJS/Node.js microservices, TypeScript, PostgreSQL, and distributed systems patterns including queues (BullMQ, Inngest), real-time communication (Socket.io), and event-driven architecture. Proven track record integrating complex payment ecosystems (Stripe, HyperPay, STCPay, TabbyPay) and delivering production-grade SaaS platforms across healthcare, logistics, CRM, and marketplace verticals. Known for ownership-driven engineering—designing systems that scale, not just shipping features.

Core Competencies: Distributed Systems • Event-Driven Workflows • Performance Optimization

TECHNICAL SKILLS

AI Tools: Claude Code, Gemini 3.1 pro (Antigravity), OpenAI API

Languages: TypeScript, JavaScript (ES2022+), SQL

Backend: NestJS, Node.js, Express.js, Sails.js, WebSockets

Frontend: Next.js, React.js, Redux, React Hooks

Databases: PostgreSQL, MySQL, MongoDB, Oracle — schema design, query optimization, indexing

Cloud & Infra: AWS (S3, SNS, SES), Firebase, Docker, Redis, BullMQ, Trigger.dev, Inngest

Real-time & Comms: Socket.IO, Agora (video/audio), Twilio SMS, SendGrid, OneSignal

Payments: Stripe, HyperPay, STCPay, TabbyPay — checkout, webhooks, subscription lifecycle

Observability: Sentry, logging pipelines, error tracking, performance monitoring

Tools: Git, GitHub, GitLab, Typesense, Zoho CRM, Postman, Swagger

PROFESSIONAL EXPERIENCE

Software Engineer · Sigma Solve Inc.

Dec 2024 – Present | Ahmedabad, Gujarat

- ▶ Architected migration of a legacy .NET CRM (StarShip) to NestJS microservices, adopting event-driven processing with Trigger.dev queues and real-time Socket.IO for live client state propagation.
- ▶ Integrated Typesense search replacing full-table SQL scans with sub-50ms indexed lookups; configured Sentry with custom alerting to reduce MTTD for production incidents.
- ▶ Self-hosted Trigger.dev on Docker to decouple async background jobs from the API request lifecycle, improving overall API response times.

Software Developer · Logistic Infotech Pvt. Ltd.

Mar 2022 – Nov 2024 | Rajkot, Gujarat

- ▶ Delivered 5+ production SaaS platforms end-to-end across healthcare, music, job portals, and service marketplaces using Node.js, Sails.js, and React.js.
- ▶ Built veterinary telemedicine platform (DialAVet) with Agora.io video calls and VOIP push notifications for iOS cold-start call delivery via OneSignal.
- ▶ Architected 3-gateway payment infrastructure (HyperPay, STCPay, TabbyPay) with webhook reconciliation and cron-driven appointment state management for Scoty Pets.
- ▶ Implemented Stripe subscription lifecycle (checkout, renewal, cancellation, webhooks) with MongoDB-backed state for a subscription content platform.

KEY PROJECTS

NexDental Lab — Dental Case Management Platform nextdentallab.com

Stack: Open AI · NestJS · PostgreSQL · Stripe · AWS S3 · Firebase · Inngest UPS / FedEx / SFCS

⚡ **AI Feature:** Engineered an OpenAI Vision-powered document intelligence pipeline where doctors upload handwritten or printed patient forms; the system automatically extracts patient details and tooth-specific issue data, populating the case form without manual entry. Implemented a confidence-based accuracy layer that visually flags each field — **green border** for high-confidence extractions and **red border** for low-confidence fields requiring doctor review — ensuring data integrity across all dental case submissions.

- ▶ Built a multi-module platform supporting Dentists, Manufacturers, and Admin roles with end-to-end Case Management, Payment Processing, and Shipping integrations.
- ▶ Integrated Stripe payments with multi-payment processing orchestrated via Inngest queues, Integrated UPS, FedEx, and SFCS for automated shipping workflow

StarShip — Enterprise CRM Platform trsrentelco.com

Stack: NestJS · Node.js · TypeScript · Oracle · Socket.IO · Sentry · Trigger.dev · Typesense · Redis · Docker

- ▶ Migrated legacy .NET CRM to a modern NestJS microservice architecture, enabling horizontal scalability and cloud-native deployment.
- ▶ Delivered real-time event pipeline with Socket.IO for live customer interaction feeds; background job queue (Trigger.dev) for async bulk operations.
- ▶ Embedded Typesense for sub-50ms customer search and Sentry for production observability — improving reliability and developer response time.

Scoty Pets — Veterinary Appointment & Payments Platform scoty.com

Stack: Sails.js · MySQL · HyperPay · STCPay · TabbyPay · Zoho CRM · OneSignal · Yamamah SMS · AWS S3 · Agora.io

- ▶ Delivered end-to-end appointment booking platform with 3-gateway payment integration (HyperPay, STCPay, TabbyPay) and automated cron-driven status reconciliation.
- ▶ Integrated Zoho CRM to streamline accounting and reduce manual operational overhead; connected Yamamah for regional SMS delivery.
- ▶ Implemented VOIP push notification for iOS video call initiation via OneSignal — critical for cold-start call delivery on mobile devices.

ServGo — Service Marketplace API Platform

Stack: NestJS · PostgreSQL · Twilio · Firebase · TypeScript

- ▶ Built scalable REST API backend with NestJS and PostgreSQL for a multi-vendor service marketplace in Ghana.
- ▶ Implemented real-time chat backend, OTP authentication via Twilio SMS, and push notifications for new service listings.

EDUCATION

Bachelor of Engineering — Computer Science

2019 – 2022

Marwadi Education Foundation, Rajkot CGPA: 7.54 / 10

Diploma in Computer Engineering

2016 – 2019

Christ Polytechnic Institute, Rajkot CGPA: 9.14 / 10