

KUNAL SINGH

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PROFESSIONAL SUMMARY

Backend-focused Full Stack Engineer with **4+ years of experience** building scalable SaaS platforms, e-commerce systems, CRM pipelines, and real-time applications using **Node.js, PostgreSQL, React, and AWS**. Specialized in **API architecture, payment systems, multi-tenant RBAC platforms, and high-concurrency backend workflows**. Shipped 6+ production products end-to-end — from database schema to cloud deployment — with a consistent record of zero-downtime releases and measurable business outcomes.

CORE COMPETENCIES

- Backend API Design & Architecture
- RESTful API & Microservices
- Node.js / Express.js
- React.js / Next.js
- PostgreSQL (Triggers, Stored Procs)
- MySQL / MongoDB / NoSQL
- Real-Time Systems (MQTT, Socket.io)
- Multi-Tenant SaaS Architecture
- Payment Gateway Integration
- AWS EC2 / S3 / Cloud Deployment
- CI/CD & GitHub Actions
- Redis / Caching / Rate Limiting
- Role-Based Access Control (RBAC)
- Background Jobs / Worker Processes
- Event-Driven Architecture

PROFESSIONAL EXPERIENCE

Full Stack Engineer (Backend-focused)

May 2022 – Present

Sublime TechnoCorp Pvt. Ltd.

Navi Mumbai, India

- Architected and shipped **6+ production web products** across SaaS, e-commerce, CRM, freight, and auction domains — each delivered end-to-end from schema design to cloud deployment.
- Designed high-concurrency **REST APIs** using **PostgreSQL, MySQL, and MongoDB** with stored procedures and triggers for business-critical workflows.
- Integrated **PayU** and **Razorpay** with split-payment and coupon logic across live products, maintaining **zero payment reconciliation failures** in production.
- Built **multi-tenant SaaS architecture** with hierarchical **RBAC** (Admin / Distributor / Sub-Distributor), achieving full data isolation across **50+ distributor accounts**.
- Deployed all products on **AWS EC2/S3** and Ubuntu VPS with **GitHub Actions CI/CD** — maintaining **zero-downtime releases** across the full portfolio.
- Integrated **5+ third-party platforms** (Facebook SDK, WhatsApp API, Zoom, IndiaMART, JustDial), automating lead workflows and cutting manual sales effort by **~40%**.
- Standardized API documentation and onboarding workflows, reducing new-engineer ramp-up time by **~30%**.

KEY PROJECTS

Morix — Digital Signage SaaS Platform | *Node.js, Express.js, PostgreSQL, Redis, MQTT, Docker, PM2, PayU*

- Architected backend for a **multi-tenant SaaS platform** with scoped **RBAC** across Admin, Distributor, and Sub-Distributor roles — supporting **50+ active distributor accounts**.
- Designed **PostgreSQL schema** with stored procedures and triggers to execute multi-step operations atomically, reducing application-layer error surface significantly.
- Integrated **PayU split-payment logic** to auto-distribute commissions across the distribution hierarchy on every transaction.
- Built **MQTT real-time playlist delivery** supporting **100+ connected signage devices** with offline queue and sync reconciliation — ensuring guaranteed delivery on unreliable networks.
- Deployed using **Docker** containers managed via **PM2** for process reliability; used **Redis** for session caching and rate limiting.

MK Gare Jewellers — Jewellery E-Commerce Platform | *Next.js, Node.js, PostgreSQL, Redis, Docker, PM2, PayU*

- **Live:** mkgharejewellers.com
- Built a **real-time dynamic pricing engine** tied to live gold/silver rates — serving accurate prices on every request across **500+ SKUs** without manual updates.

- Implemented **SSG + dynamic pricing hybrid** in Next.js — static pages for SEO, live metal-rate resolution per request — improving organic search ranking post-launch.
- Applied **PostgreSQL row-level locking** to prevent inventory overselling under concurrent order submissions.
- Used **Redis** to cache live metal rate API responses, reducing external API calls and improving pricing endpoint latency.

CRM System with Multi-Channel Lead Automation | *Node.js, Express.js, Redis, Docker, Facebook SDK, WhatsApp API,*

- Unified **5 lead sources** (Facebook, WhatsApp, IVR, IndiaMART, JustDial) into a single CRM pipeline — reducing lead fragmentation and improving sales team response time by **~50%**.
- Built configurable **campaign automation** and drip-sequence rules, enabling marketing teams to launch workflows without engineering involvement.
- Implemented **webhook retry logic** with **Redis-backed queues** for third-party API failures, ensuring zero lead loss during outages.

Freight Forwarding Management System | *Next.js, Node.js, Express.js, MySQL, Docker, PM2*

- Delivered a full-stack **freight management platform** covering quotations, job tracking, accounting, and dynamic operational controls across multiple business modules.
- Built dynamic **MySQL-backed admin configuration panels** allowing operations teams to manage pricing rules and workflows without developer involvement.
- Containerized application with **Docker** and managed Node.js processes via **PM2** for zero-downtime restarts in production.

Auction-Based E-Commerce Platform | *Node.js, Express.js, Redis, Razorpay, Zoom Video SDK*

- Designed **auction and commerce APIs** with real-time bid processing, integrating **Razorpay** for secure payments and **Zoom Video SDK** for live seller-buyer sessions.
- Used **Redis** for atomic bid state management, preventing race conditions under simultaneous bid submissions.

Automated Marketing Chatbot (Personal Project) | *Next.js, React Flow, Socket.io, MongoDB, Redis*

- Designed a **visual workflow-driven chatbot** for automated lead capture using **React Flow** as a dynamic node-based conversation editor.
- Implemented **real-time interaction handling** via **Socket.io**, **Redis** pub/sub for session state, and **MongoDB** for persistent lead storage.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, C, C++

Frontend: React.js, Next.js (SSR/SSG/ISR), React Flow, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST API Design, Socket.io, MQTT, Webhooks, Event-Driven Architecture, Background Jobs, Worker Processes

Databases: PostgreSQL (Stored Procedures, Triggers, Row Locking), MySQL, MongoDB, Redis, Query Optimization, Caching

Cloud & DevOps: AWS EC2, AWS S3, Ubuntu Linux, PM2, Nginx, Docker, SSL/TLS, CI/CD, GitHub Actions

Payments: PayU, Razorpay (Split Payments, Webhooks, Reconciliation)

Communication APIs: WhatsApp Business API, IVR, Zoom Video SDK

Marketing Integrations: Facebook Business SDK, IndiaMART, JustDial

Tools & Practices: Git, Postman, VS Code, Agile/Scrum, JWT Authentication, RBAC, API Documentation, Rate Limiting

EDUCATION

B.Sc. Information Technology

University of Mumbai, Navi Mumbai

2019 – 2022

GPA: 9.33 / 10.0

Higher Secondary Certificate (HSC – Science, CBSE)

Gandhi Nagar Public School, Moradabad

2018 – 2019

Secondary School Certificate (SSC – CBSE)

Gandhi Nagar Public School, Moradabad

2016 – 2017