

Sahil

Backend Software Engineer | Node.js | NestJS | TypeScript

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[GitHub](#) | [LinkedIn](#) | [SnapShelf](#)

PROFESSIONAL SUMMARY

Backend Software Engineer with 3+ years of experience building scalable APIs, microservices, multi-tenant applications, and event-driven backend systems. Proficient in Node.js, NestJS, TypeScript, PostgreSQL, MongoDB, Redis, messaging queues, and AWS. Experienced in third-party integrations, payment and billing workflows, cloud deployments, and production AI integrations. Contributed to an AI-powered platform serving 27,000+ users, optimized API response times by up to 40%, and independently built and launched SnapShelf, a SaaS inventory management product.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, SQL
- **Backend Development:** Node.js, NestJS, Express.js, Flask, REST APIs, GraphQL, Swagger/OpenAPI, WebSockets
- **Databases and Caching:** PostgreSQL, MongoDB, Redis, ChromaDB
- **Messaging and Async Processing:** RabbitMQ, BullMQ, Redis Queues, Event-Driven Architecture, Background Jobs, Retry Mechanisms
- **Cloud and Infrastructure:** AWS Lambda, API Gateway, EC2, ECS, RDS, S3, CloudWatch, Cognito, VPC, Docker, Linux, Nginx, PM2, Railway, Vercel, DigitalOcean
- **CI/CD and Security:** GitHub Actions, ArgoCD, OAuth 2.0, JWT, RBAC, Rate Limiting, API Versioning, SSL/TLS
- **AI and System Design:** LLM Integrations, LangChain, RAG, Vector Search, Microservices, Distributed Systems, Scalability, High Availability, Caching, Idempotency, Observability
- **Tools:** Git, Jira, ClickUp

PROFESSIONAL EXPERIENCE

Cuilsoft Pvt. Ltd.

Jan 2023 – Jul 2026

Backend Engineer

- Designed and developed REST APIs and microservices using Node.js, NestJS, TypeScript, PostgreSQL, MongoDB, Redis, and AWS for SaaS platforms covering authentication, role-based access control, workflow automation, billing, and document management.
- Integrated QuickBooks Online, Zoom, Stripe, OAuth, and Brevo to support billing workflows, invoicing, communications, and third-party service synchronization.
- Improved backend throughput using Redis caching and asynchronous processing with RabbitMQ and BullMQ; streamlined application deployments using Docker and GitHub Actions.
- Led client requirement-gathering and technical discussions, translated business requirements into backend solutions, and owned feature delivery from planning through production deployment.
- Contributed to an AI-powered employment and labour law platform that processed a dataset of over 50,000 cases, filtering relevant cases for AI services that generated case outcome prediction scores.

SELECTED PROJECTS

Snapshelf – Independent SaaS Product

NestJS, Next.js, MongoDB, Razorpay

- Independently built and launched a SaaS inventory management platform for small businesses, with product catalogs, public storefronts, WhatsApp sharing, and affiliate links.
- Designed and implemented Razorpay subscription billing, including webhook processing, subscription lifecycle management, and tier-based feature gating.
- Developed backend APIs and MongoDB data models with subscription-based product limits and access controls across pricing tiers.
- Owned the full product lifecycle, including backend architecture, API design, frontend integration, deployment, production debugging, and feature development.

ADR Booking

NestJS, PostgreSQL, MongoDB, Redis, BullMQ

- Migrated a legacy FileMaker Pro workflow to a multi-tenant platform serving 25+ dispute resolution services, replacing manual, email-based intake with public-facing forms for arbitration and mediation.
- Developed an invoicing module integrated with QuickBooks Online, enabling case managers to generate and send invoices within the platform.
- Integrated Google Calendar and Zoom to automate client meeting scheduling and synchronization.

Thaimis

NestJS, MongoDB, Redis, Hanko, Brevo, LLM Integrations

- Built backend services for an AI-powered employment and labour law platform serving 27,000+ users, including REST APIs, WebSockets, authentication, RBAC, and secure document workflows.
- Developed an AI outcome-prediction pipeline that analyzed historical case data and user-submitted questions to generate likely case outcomes based on relevant precedents.
- Reduced API response times by up to 40% through Redis caching and database query optimization.

ZenClinic

NestJS, PostgreSQL, MongoDB, Redis, RabbitMQ, AWS, Stripe, Clerk

- Developed backend functionality for a multi-tenant clinic booking platform with Clerk authentication and Stripe-integrated payments.
- Built practitioner availability, pricing, group and recurring appointment features, alongside administrative tools for practitioner management and time blocking.
- Designed queue and token generation for walk-in sequencing and room allocation using RabbitMQ and Redis-based event-driven

workflows with retry mechanisms.

GovIntel / VinTel Platform (VinLogx)

AWS Lambda, API Gateway, Cognito, RDS, PostgreSQL, VPC

- Built and deployed serverless backend services using AWS Lambda and API Gateway, with VPC-based network isolation and IAM permissions.
- Optimized Cognito-based authentication data retrieval by synchronizing non-sensitive user information to PostgreSQL while retaining Cognito as the authentication source of truth.

RAG-Based Document Q&A System

LangChain, ChromaDB, MongoDB, Docker

- Built an AI-powered HR Policy Assistant using retrieval-augmented generation, semantic search with ChromaDB, MongoDB, and Docker-based deployment.

EDUCATION

Bahra University

2016 – 2020

Bachelor’s Degree in Hospitality