

NEERAJ SINGHI

Senior Backend Engineer — Distributed Systems · Go · Cloud Infrastructure

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SUMMARY

Senior backend engineer with 10+ years building production Go services, SDKs, and containerized systems on AWS. Currently lead a 5-engineer team delivering an AI-enabled consumer marketplace platform (Go, NestJS, Next.js, MongoDB), owning architecture and technical direction end to end. Track record spans security-conscious backend work — license enforcement, usage metering, and tamper detection using encryption and hashing at Dell — and modern AI integration with OpenAI, RAG, and tool-based workflows. Operates as the technical anchor on a team: setting engineering standards, mentoring engineers, and turning ambiguous requirements into shipped systems.

CORE SKILLS

Languages: Go (primary), TypeScript, JavaScript

Backend & Distributed Systems: Microservices, gRPC, REST, WebSockets, SDK design, Node.js, NestJS

Cloud & Infra: AWS (ECS, ECR, S3, SES, SNS), Docker, Kubernetes, Terraform

Observability: Prometheus, OpenTelemetry

AI / LLM: OpenAI, RAG (Retrieval-Augmented Generation), MCP (Model Context Protocol)

CI/CD & Tooling: GitLab CI, GitHub Actions, Git

Data: MongoDB, MySQL, Redis

Frontend (supporting): React, Next.js, Redux, Bootstrap

PROFESSIONAL EXPERIENCE

Lead Backend Engineer (Freelance)

Feb 2026 – Present

Confidential Client

- Lead a 5-engineer team (3 backend, 2 frontend) building a consumer marketplace platform — owning architecture, technical direction, and delivery.
- Architected a modular Go + NestJS backend (40+ domain modules) on MongoDB with a Next.js frontend, exposing versioned REST APIs with DTO validation, pagination, and auto-generated Swagger docs.
- Built AI features with OpenAI — job-posting generation, resume parsing, and semantic search — using retrieval-augmented generation (RAG) and tool-based integrations for context-aware recommendations.
- Implemented JWT authentication with role-based access control, rate limiting, IP blacklisting, and HTTP hardening; integrated Stripe payments and subscriptions, Firebase push, and Twilio SMS.
- Improved performance by refactoring MongoDB query patterns and adding Redis caching, response compression, and pagination; ran on AWS (S3, SES, SNS) and containerized with Docker / Docker Compose.
- Mentor engineers on Go and on ramping into the codebase, lifting delivery consistency across the team.

Senior Software Consultant

Oct 2022 – Jan 2026

Dell Technologies (via Objectwin Technology) — Delhi

- Developed part of Dell's license enforcement service, used internally by product teams across the company.
- Built core enforcement components — runtime validation of license entitlements and feature/capability gating — that products integrated to enforce licensing.
- Implemented usage metering and tamper detection in the enforcement layer, using encryption and cryptographic hashing to protect license integrity and flag tampering at runtime.
- Ported a performance-critical C component to Go, reconciling cgo and memory-model differences so it shipped as a single pure-Go artifact and dropped the native build toolchain entirely.
- Established testing and release standards — automated test gates on every merge in CI — a bar that other contributors then built to.
- Set and enforced code-review standards across the team and mentored 5 engineers contributing to the Go and Java codebases, improving consistency and reducing review churn.
- Owned the release pipeline across GitLab CI and GitHub Actions — packaging, artifact publishing, and deployment — and maintained the AWS ECS / ECR footprint.

- Drove requirements directly with stakeholders, shaping loosely-defined asks into a scoped, delivered roadmap.

Consulting Software Engineer

Mar 2022 – Aug 2022

Turing.com — Delhi

- Built and deployed a background daemon on an AWS Linux VM that captured developer activity — keystrokes, commits, and other work signals — giving Turing's customers visibility into the work delivered by the engineers they hired through the platform.
- Stabilized the Matching Kanban system — root-caused and resolved 10+ critical defects across Go, Node.js/NestJS, and React services, hardening a previously flaky matching workflow.
- Worked across the stack — Go and Node.js/NestJS services with a React/TypeScript frontend on MySQL — building and optimizing application features.

Software Development Consultant

May 2021 – Apr 2022

Truelancer (client: AstraZeneca) — Delhi

- Delivered user-roster and session functionality for AstraZeneca's CRM, improving system performance by ~30% and resolving 20+ defects.
- Led code review on the shared GitHub repo, raising code quality and team consistency.

Full-Stack Engineer

Apr 2019 – Aug 2021

Freelance — Delhi

- Architected and shipped a Medical News platform as containerized microservices (Go backend, Flutter client) on Docker and Kubernetes.
- Designed backend systems and APIs for a social platform and stock-trading clients, owning delivery from requirements through deployment.

R&D Engineer, Software 2

Jul 2017 – Apr 2019

Broadcom Inc. — Hyderabad

- Improved alarming-system accuracy by 20% and built SaaS monitoring probes (SQL, Active Directory, system), strengthening customer observability.
- Partnered with customers to resolve critical P1 defects, protecting uptime and preventing system failures.

Software Intern

Jan 2017 – Jun 2017

Cisco — Bengaluru

- Implemented IoT protocol work (CoAP) on Cisco switches, improving constrained-network communication efficiency.

QA Engineer

Oct 2013 – Dec 2014

Trignodev Software Pvt. Ltd — Noida

- Built and executed comprehensive test suites (GUI, functional, regression) for Kareermatrix.com, owning quality reporting to project management.

PROJECTS

Consumer Marketplace Platform — AI-enabled mobile app

- Mobile-first consumer marketplace with AI-assisted listing generation, document parsing, and semantic search. Go + NestJS backend on MongoDB with a Next.js web app; OpenAI/RAG, Stripe, Redis, and AWS, containerized with Docker.

Medical News Platform — containerized news delivery

- Curated medical-news platform built as Go microservices with a Flutter mobile client, deployed on Docker and Kubernetes.

EDUCATION

M.Eng., Computer Science — BITS Pilani

Aug 2015 – Jul 2017

B.Tech, Computer Science — CIITM, Jaipur

Sep 2008 – Jul 2012

CERTIFICATIONS & ACHIEVEMENTS

Certifications: AWS Certified Solutions Architect – Associate · AWS Certified Cloud Practitioner · Go Design Patterns

Recognition: Hackathon Winner · Above & Beyond Award