

Gaurav Kumar

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SUMMARY

Backend Engineer with almost 3 years of experience building **scalable, production-grade APIs** and systems using **NestJS**. Skilled in **system design, third-party integrations, cron jobs**, and **deployment automation** across healthcare and research domains.

EXPERIENCE

Software Engineer

Nov 2022 – Aug 2025

CognitiveClouds

Bengaluru, India (remote)

- Spearheaded backend development using **NestJS**, delivering robust and scalable systems across multiple healthcare and research projects.
- Worked on features like **payments, appointments, participant timelines** using webhooks, crons, and pub-sub architecture
- Collaborated closely with frontend teams to integrate **RESTful APIs**, ensuring smooth end-to-end feature delivery.
- Worked with QA to **identify and eliminate bugs**, optimize performance, and ensure high system **availability**.
- Introduced architectural improvements, explored new libraries, and implemented solutions that **reduced technical debt** and **boosted code performance**.
- Developed **custom cron-based modules** for time-sensitive tasks with enhanced error handling and reliability.
- Led the development of **proofs of concept (POCs)** that directly contributed to winning new client projects.
- Successfully led a major project from scratch, overseeing architecture, design decisions, implementation, testing, and deployment.

WORK PROJECTS

Cadence

- Led backend development for a research-focused platform featuring chat, telehealth, lesson scheduling, notification delivery system, and health tracking (sleep, steps).
- Integrated features like video calls, audio transcription, and action scoring.
- Collaborated with client-side data analysts to align BigQuery scripts with their infrastructure.
- Integrated features like video calls, audio transcription, and action scoring.

SDG

- Developed backend modules for symptom tracking, reminders, and real-time notifications.
- Designed **REST APIs** and WebSocket-based chat infrastructure for real-time interactions.
- Integrated third-party systems such as **ModMed** for patient records and **Square** for payments.
- Built cron-based reminder workflows based on therapy type and user behavior
- Refactored legacy modules into modular services, improving maintainability and scalability.

Medlinks

- Architected backend for role-based workflows across multiple health programs (clinicians vs participants).
- Integrated wearable device data and medical sensors to track glucose, weight, and other vitals
- Developed optimized aggregation APIs for historical health graph visualizations.
- Ensured secure data handling and privacy compliance for sensitive health data

TECHNICAL SKILLS

Languages: JavaScript, Typescript, SQL (PostgreSQL), HTML/CSS,
Frameworks / Libraries Node.js, Bun, NestJs, Express, Hono, Sequelize, pub-sub
Developer Tools: Git, Docker, npm, Google Cloud Platform, VS Code,

EDUCATION

Punjabi university

Bachelor of Computer Statistics and Mathematics (CSM)

Patiala

2016-2020