Gaurav Kumar

6280752721 | gauravanurag36@gmail.com | linkedin | portfolio

SUMMARY

Backend Engineer with 3 years' experience building **scalable APIs** and **microservices** using **NestJS**, **node**, **express**, focusing on system design, third-party integrations, and deployment automation in healthcare and research domains.

EXPERIENCE

Software Engineer   Nov 2022 – Aug 2025
CognitiveClouds   *Bengaluru, India (Remote)*

- Designed and implemented features like **payments**, **appointments**, and **participant timelines** leveraging webhooks, cron jobs, and a **pub-sub architecture**.
- Collaborated with frontend teams to integrate **RESTful APIs**, ensuring seamless data flow and reducing integration issues.
- Introduced architectural improvements and explored new libraries, reducing **technical debt** and improving code maintainability by 25%.
- Developed **custom cron-based modules** for time-sensitive tasks with enhanced error handling and fault tolerance.
- Led development of **proof-of-concept (POC)** projects that directly contributed to securing new client.
- Successfully led two major projects from inception to deployment, managing architecture, design decisions, coding, testing, and release.

WORK PROJECTS

Cadence

- Designed and implemented the entire backend from scratch for a research-focused platform featuring **onboarding workflows**, **Cms modules**, **appointment scheduling**, and **telehealth features**.
- Implemented advanced features including **video calls**, **audio transcription**, and **action scoring** to support research activities.
- Collaborated with client-side analysts to integrate **BigQuery scripts** and optimize data pipelines for large-scale reporting.

SDG

- Engineered a complete backend platform to support therapies like **SCIT, SLIT, and OIT**, incorporating **daily questionnaires**, **medication tracking**, **symptoms log**, **notification based trackers**, and **adherance**, monitoring.
- Developed subscription-based payment workflows using **Square API**, ensuring secure and recurring billing.
- Built cron-driven reminder workflows for therapy schedules, significantly improving patient adherence.
- Integrated third-party systems such as **ModMed** for patient data and implemented **WebSocket-based chat** for real-time interactions.

Medlinks

- Architected backend infrastructure for a multi-program healthcare platform supporting **clinicians**, **participants**, and **admins** with full **RBAC** implementation.
- Developed scheduling features, system modules for integrating wearable devices (tracking glucose, weight, and vitals), and health program management.
- Built optimized aggregation APIs to generate historical health graphs for participants.
- Ensured HIPAA-compliant data security and privacy for sensitive medical information.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL (PostgreSQL), HTML/CSS
Frameworks / Libraries: Node.js, NestJS, Express, Hono, Sequelize, React (basic)
Backend Expertise: REST APIs, WebSockets, Pub/Sub, Redis, Queues (BullMQ), Cron Jobs, Caching
Developer Tools: Git, Docker, npm, Google Cloud Platform, Firebase, BigQuery

EDUCATION

Punjabi university   Patiala
Bachelor of Computer Statistics and Mathematics (CSM)   *2016-2020*