

Gaya Singh

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Summary

Backend-Focused Full-Stack Engineer with hands-on experience building and deploying production-ready APIs and backend systems using MERN, FastAPI and PostgreSQL. Designed authentication systems, analytics pipelines, and REST APIs with measured latency under 250ms. Independently built and shipped multiple deployed applications used by real users, with a strong system-design mindset and emphasis on backend reliability and performance.

Technical Skills

Programming Languages: Python, Java

Backend: Node.js, Express.js, FastAPI, REST APIs

Frontend: React.js, HTML, CSS, Tailwind CSS

Databases: PostgreSQL, MongoDB, MySQL, Redis

Fundamental: Data Structure & Algorithms (DSA), OOP, System Design, CI/CD, Problem Solving

Tools and Platforms: Git, GitHub, Postman, Vercel, Render

Projects

• Linkly - Url Shortner with Auth + Analytics

Oct 2025 – Nov 2025

A Secure URL shortening system with authentication and detailed redirect analytics for tracking link usage.

– **Tech:** React, Node.js, Express, MongoDB, JWT, In-memory caching

– **Features:**

- Architected redirect engine, authentication flow, and analytics pipeline from scratch.
- Implemented in-memory caching, reducing redirect latency by ~42% compared to DB lookups.
- Designed analytics tracking device types, browser, geo-location, and timestamps.
- Logged **1200+ redirects** during testing with approximately **99% uptime**.

• Food View - Backend-Driven Food Discovery Platform

Sep 2025 – Oct 2025

A Backend-driven food discovery platform enabling vendors to publish food content and users to browse a personalized feed.

– **Tech:** React, Node.js, Express, MongoDB, JWT, ImageKit, Render, Vercel

– **Features:**

- Designed complete backend architecture including schema design, REST APIs, authentication, and media handling.
- Implemented **JWT-based authentication** with vendor verification and role-based access control.
- Optimized image delivery using imageKit CDN, reducing media load time by ~35%.
- Maintained feed API latency under **250ms** for **~30 active users** and **600+ media assets** during testing phase.

• News Scraper & Audio Summary Application

Aug 2025 - Sep 2025

A Backend system that aggregates news from multiple sources and generates LLM-based text and audio summaries.

– **Tech:** FastAPI, Python, Groq LLM, News APIs, gTTS

– **Features:**

- Built backend APIs for multi-source news scraping from Google News and X.
- Designed LLM-based summarization pipeline producing concise bullet-point summaries.
- Processed **500+ articles** with **<4s end-to-end runtime** per request.

Education

IES College Of Technology

Aug 2023 - 2027

B.Tech. in Computer Science and Engineering

CGPA: 7.11/10

Awards

- **Winner** - National-level Hackathon (Code Clash 2025)
- **Winner** - National-level Technical Paper Presentation
- **Finalist** - 5+ National-level Hackathons across backend and full-stack domains