

# Gaya Singh

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## Summary

AI and Full-Stack Developer with backend specialization, building production-ready systems using MERN, FastAPI, PostgreSQL and LangChain. Delivered user-facing platforms with 50-100 active users, optimized API latency up to 40%, and deployed scalable architectures following clean design principles. Experience in LLM integration, OOP, DSA and DBMS.

## Technical Skills

**Programming Languages:** Python | Java

**Frontend:** HTML | CSS | JavaScript | React.js | GSAP

**Backend:** Node.js | Express.js | FastAPI | REST APIs

**Databases:** MySQL | MongoDB | FAISS (Vector DB) | PostgreSQL

**GenAI:** LangChain | HuggingFace | LLM APIs | TTS

**Tools and Platforms:** Git | GitHub | Postman | Streamlit | Figma | Vercel | Render

## Education

### IES College Of Technology

Aug2023 - 2027

B.Tech. in Computer Science and Engineering

**CGPA: 7.11/10**

Relevant Coursework: Object-Oriented Programming | Database Management System | Data Structures and Algorithms | Operating Systems | TOC (Theory of Computations) | Software Engineering

## Projects

- **Food View (2025):** [Link](#)
  - **Tech:** React, Node.js, Express, MongoDB, JWT, ImageKit, Render, Vercel
  - **Role:** Led full backend architecture and system design. Built DB Schema, REST APIs, secure auth, media pipeline, and structured deployment lifecycle.
  - **Description:** Reduced Media load time by ~35% using ImageKit CDN optimization, enabled vendor verification through dual authentication, and deployed CI-Driven zero downtime releases. Handled 600+ reels, and maintained <250ms feed API latency in development phase.
- **Linkly - Url Shortner with Auth + Analytics (2025):** [Link](#)
  - **Tech:** React, Node.js, Express, MongoDB, LangChain, JWT, QR, Render, Vercel
  - **Role:** Architected redirect systems, authentication, analytics layer, and caching pipeline.
  - **Description:** Implemented in-memory cache achieving ~42% faster redirects, integrated QR generation, and developed complete analytics capturing device, browser, geo-location, and timestamp logs. Logged 1200+ tracked redirects during internal testing with ~99.3% uptime.
- **News Scraper & Audio Summary Application (2025):** [Link](#)
  - **Tech:** FastAPI, Python, Groq Compound LLM, News API, X API, gTTS, Streamlit, Uvicorn, Requests, dotenv.
  - **Role:** Engineered backend APIs, multi-source scraping layer, LLM summarization pipeline, and gTTS-based audio generation. Built Streamlit UI for real-time summaries.
  - **Description:** Developed source-selective scraping from Google News and X, produced concise bullet summaries using groq/compound-based buffers, and encoded audio via Base64 for MP3 output. Processed 500+ articles, achieved <4s end-to-end runtime from fetch -> summarize -> audio, and reduced manual news reading time by ~70%.

## Awards

- **Winner** - National-level Technical Paper Presentation
- **Winner** - National-level Hackathon (**Code Clash 2025**)
- **Runner up** - National-level Hackathon
- **Finalist** in 5+ National-level Hackathons across AI and Full-Stack Engineering

## Certificates

- AWS Solutions Architect Job Simulation – Forage x AWS (April 2025). [Link](#)
- Advanced Software Engineering Simulation – Forage x Walmart (Apr 2025). [Link](#)