

MOHD ARSH

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[GitHub](#) | [LinkedIn](#) | [LeetCode](#)

SUMMARY

Third-year Computer Science undergraduate focused on backend development with the MERN stack. Built and shipped multiple end-to-end backend systems, including JWT-secured REST APIs, AI-integrated services (Google Gemini), and security-hardened Express/MongoDB applications. Comfortable across the stack with primary strength in server-side architecture, authentication, and API design.

TECHNICAL SKILLS

Languages: C, C++, JavaScript, Python (comfortable); Java (briefly used)

Backend: Node.js, Express.js

Frontend: React, Tailwind CSS

Databases: MongoDB (Mongoose, MongoDB Atlas)

DSA: Arrays, Binary Search, Graphs, Hashing, STL (C++)

Tools: Git, GitHub, Postman, Linux (comfortable); Figma, Obsidian (briefly used)

PROJECTS

NutriLens Backend — AI-Powered Food Ingredient Safety API

Tech Stack: Node.js, Express.js, MongoDB Atlas, Mongoose, Google Gemini API, JWT

- Developed backend features, as part of a team, for an API that evaluates packaged-food ingredient lists against a user's allergies, diet, and health conditions using Google Gemini AI, returning structured Safe/Warning/Danger verdicts with a calculated risk score.
- Implemented JWT authentication, paginated scan history, save/delete scan management, and user-level duplicate-scan detection.
- Added ingredient hash-based caching and rate limiting to reduce redundant AI calls and protect the API from abuse.
- Built during a team hackathon on preventive healthcare and food safety (participation round).

Pathify — AI-Personalized Learning Roadmap Generator [\[Live\]](#)

Tech Stack: Node.js, Express, MongoDB, Mongoose, JWT, bcrypt, Joi, Google Gemini API, React, Vite, Zustand, Tailwind CSS

- Built a full-stack app that turns a user's learning goal, timeframe, and skill level into an AI-personalized, phase-by-phase roadmap, using Gemini's structured JSON schema output to generate milestones with a first micro-step, time estimate, and resources.
- Implemented milestone completion tracking, progress tracking, and daily streaks; secured the API with JWT auth, bcrypt password hashing, and Joi request validation.
- Hardened the backend with helmet, CORS, and rate limiting; deployed backend on Render, frontend on Vercel, and database on MongoDB Atlas.

BlogNest — Blogging Platform Backend [\[Live\]](#)

Tech Stack: Node.js, Express.js, MongoDB, JWT, Zod, ImageKit

- Built a solo backend for a blogging platform with nested comments, JWT authentication, and image uploads via ImageKit.
- Audited and fixed security issues found in a self-led code review: insecure cookie flags, a role-injection vulnerability, missing rate limiting, and absent database indexes.

Audio Streaming Platform Backend

Tech Stack: Node.js, Express.js, MongoDB, ImageKit, JWT

- Built a solo backend supporting user authentication, playlist/album creation, and user/artist profile management; debugged JWT role-assignment bugs, ImageKit SDK integration issues, and file-upload pipeline errors.

EDUCATION

IMSEC Engineering College

Bachelor of Technology, Computer Science & Engineering

CGPA: 8.00 / 10

2024 – 2028 (Expected)