

AKSHAT MALIK

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EDUCATION

Birla Institute of Technology, Mesra
Bachelor of Engineering in Computer Science

CGPA: **8.18/10**
Aug 2023 – Present

EXPERIENCE

Zolarity

May 2026 – July 2026

Full Stack Developer Intern

Tech : PostgreSQL , NestJS , TypeORM , React.js , TanStack .

Developed and refactored **RESTful endpoints** within a **modular monolith**, utilizing the **Controller-Service pattern** for enhanced code maintainability.

Resolved 3 high-priority full-stack **JIRA tickets** in a single sprint, implementing **role-based access control** , **API enhancements**, **database migrations**, and **UI improvements** .

Optimized query performance from **10s to 250ms** , significantly reducing response times.

PROJECTS

Chat-Relay MCP

GitHub | Live

Developed a **Model Context Protocol (MCP)** server that enables **cross-IDE** context persistence and migration by **storing conversations**, **project metadata**, and **custom developer context**, allowing seamless continuation of AI-assisted workflows across different IDEs. Published as an **npm package with 400+ downloads**.

Tech: TypeScript, MCP SDK, SQLite, Zod, Node.js.

Multi AI Agent + RAG Research System

GitHub

Built a **RAG-powered** research system with **metadata-aware retrieval** and a **multi-agent architecture** (Searcher, Parser, Report Generator, Critic Reviewer) that performs **live web research**, synthesizes information from multiple sources, and generates comprehensive structured **reports**.

Tech: React.js, FastAPI, MongoDB, PineconeDB, LangChain, Sentence Transformers, Groq, Cerebras , Llama 3.1 , Llama 3.3.

Resume Analyzer

GitHub

Built an **AI-powered platform** that identifies skill gaps, generates interview questions, and creates **ATS-optimized resumes** tailored to job descriptions.

Tech: React.js, Express.js, MongoDB, JWT, Bcrypt, Puppeteer, Zod , Groq , Llama 3.3.

CodeSandbox

GitHub

Implemented a **web-based code execution platform** using **worker processes** to **orchestrate Docker containers**, enabling secure, **isolated**, and scalable code execution environments.

Tech: Docker, Express.js, Redis, BullMQ, MongoDB, Zod , React.js .

SKILLS

Languages: JavaScript, Java, Python, TypeScript

Frameworks: React.js, Tailwind CSS, Express.js, FastAPI, NestJS, LangChain , TanStack

Databases: MongoDB, PostgreSQL, Redis, PineconeDB

AI/LLM: Groq, Cerebras, Llama 3.1, Llama 3.3

Tools: Git, GitHub, Docker, BullMQ , MCP SDK

Miscellaneous: Zod , JWT , TypeORM , Mongoose

ACHIEVEMENTS AND PUBLICATION

Published the **research paper** *Youth Standpoints on Food Wastage at Indian Weddings: A Cross-Sectional Study of Policy Perspectives and Tech-Driven Solutions for a Sustainable Future* in the **TSM Journal (Scopus-indexed)**.

Solved 400+ DSA problems across **LeetCode** and other coding platforms .

Published technical articles on **Medium** covering **web development**, **AI systems**, and **software engineering**.