ATEEB ARMAN

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EDUCATION

Indian Institute of Information Technology, Sri City   **2022 – 2026**
B.Tech - Computer Science and Engineering   *Sri City, Andhra Pradesh*

TECHNICAL SKILLS

Languages: C++, Python, JavaScript
Core Subjects: Data Structures & Algorithms, DBMS, Operating Systems, OOPs, Computer Networks
Web Frameworks: React.js, Node.js, Express.js, TailwindCSS
Databases: MySQL, MongoDB
Tools: Git, GitHub, Postman, Linux
Security: JWT, CORS, RESTful Architecture

EXPERIENCE

TechTok4U Pvt Ltd | SDE Intern (MERN Stack)   **Jan 2025 – Mar 2025**

- Architected a **modular backend system** for the Instil platform, refactoring core services to improve system maintainability and multi-tenant scalability.
- Optimized data retrieval by designing complex **MongoDB aggregation pipelines** and indexing strategies, significantly reducing API response latency.
- Implemented standardized error handling and request validation across **RESTful APIs**, ensuring robust communication between micro-modules.

PROJECTS

LearnSphere AI | Node.js, Express, MongoDB, Redis, Judge0, GroqApi, GeminiApi, React   **2026**

- Architected an AI ecosystem using **Gemini 2.0** and **Groq** to deliver personalized roadmaps, **RAG-powered** curriculum from PDFs, and streaming tutoring integrated with dynamic quiz assessments.
- Engineered a **Judge0-powered Coding Arena** and a gamified **Skill Tree** that visualizes technical mastery across 150+ tags, utilizing a custom fuzzy-logic engine for real-time progress attribution.
- Optimized performance via **Redis caching** and a dynamic key-rotation system, implemented **Role-Based Access Control (RBAC)** and **JWT authentication** for secure, permission-based access..

RecoSense | Node.js, Express, MongoDB, LightFM, Groq API, Python, React   **2025**

- Architected a hybrid recommendation engine combining **LightFM matrix factorization** with sentiment signals, featuring a **threshold-driven** pipeline for automated re-run and **demographic cold-start** fallback.
- Optimized data retrieval via **MongoDB compound indexing** and **multi-layer caching**, reducing API latency by 40% while utilizing bulk-fetch patterns to minimize overhead during high-concurrency loads.
- Engineered a **Synchronized Global State** for real-time persistence and integrated a **Groq-powered AI Consultant**, securing the ecosystem with **JWT-driven RBAC** and an admin health-monitoring suite.

DriveSphere | React.js, Node.js, Express.js, MongoDB, Redis, JWT   **2025**

- Built a scalable **car rental platform** using **React, Node.js, Express, and MongoDB**, implementing secure **RBAC** with **JWT authentication** and modular **RESTful APIs** based on **MVC architecture**.
- Enhanced performance using **Redis caching** to reduce database load and latency, and standardized backend workflows via **Swagger API documentation** and secure image uploads using **Multer**.

ACHIEVEMENTS

- **Data Structures & Algorithms:** Solved 600+ problems across LeetCode, GeeksforGeeks, and Code360.
- **College Rank 1:** Secured first position 6 times in the monthly college Code360 coding leaderboard.
- **Leadership:** Served as Co-Lead for Hospitality at Abhisarga (College Fest), managing logistics for 200+ guests.