Yasir Arfat

Software Engineering Undergraduate | Full Stack (MERN) | Generative AI

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 LinkedIn   GitHub   LeetCode   🌐 Portfolio

Summary

B.Tech Computer Science undergraduate (2027) with strong expertise in **Full Stack (MERN)** development and **Generative AI fundamentals**. Experienced in building scalable web applications with JWT-based authentication, REST APIs, and cloud deployments. Hands-on experience with **Retrieval-Augmented Generation (RAG)**, vector databases (FAISS), and LLM integration using AWS Bedrock. Strong foundation in Data Structures and Algorithms with **200+ problems solved** across LeetCode and GeeksforGeeks.

Education

- **Malla Reddy Engineering College**   **2023 – May 2027 (Expected)**
  B.Tech in Computer Science (CGPA: 8.5/10)   *Hyderabad, India*
  - Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOPS

- **Kendriya Vidyalaya**   **2021 – 2023**
  Senior Secondary (77.5%)   *Hyderabad, India*

Projects

- **Conversational RAG PDF Q&A System using AWS Bedrock** (Python, Streamlit, LangChain, FAISS, AWS Bedrock) [Live] [GitHub]
  - Built and deployed a PDF-based conversational RAG system using FAISS vector indexing.
  - Integrated Amazon Titan embeddings with LLaMA-3 via AWS Bedrock.
  - Enabled semantic document search with low-latency inference.
  - Deployed on AWS EC2 with IAM-based access control.

- **Syllabus Management System** (JavaScript, React, Node.js, Express, MongoDB) [Frontend] [Backend] [Live]
  - Developed a role-based MERN platform for managing academic syllabi.
  - Implemented Admin CRUD and Student view-only access using JWT.
  - Improved academic accessibility for 100+ students.
  - Deployed frontend on Netlify and backend on Render.

- **Airbnb Clone (MVC Architecture)** (Node.js, Express, MongoDB, EJS, Cloudinary) [GitHub] [Live]
  - Built a full-stack Airbnb clone following MVC architecture.
  - Implemented authentication, CRUD listings, and image uploads via Cloudinary.

Technical Skills

- **Languages:** C++, JavaScript, Python
- **Frontend:** React.js, Bootstrap
- **Backend:** Node.js, Express.js
- **Databases:** MongoDB, SQL
- **Generative AI:** RAG, LangChain, FAISS, LLMs, AWS Bedrock
- **Tools & Cloud:** Git, GitHub, AWS EC2, Postman, VS Code
- **CS Fundamentals:** DSA, DBMS, OS, OOPS, Computer Networks

Certifications

- Microsoft Certified: Azure AI Fundamentals – Credential
- SQL (Basics) – HackerRank – Credential
- Full Stack Web Development – Apna College