SHANMUKHA REDDY VASA

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Profile

B.Tech in Computer Science and Engineering at VIT-AP University, Amaravati. Proficient in Java, Python, front-end technologies including HTML, CSS, JavaScript, React.js, Redux, and back-end technologies including Node.js, Express.js, MongoDB, SQL and Docker. Experience in problem-solving at data structures and developing responsive web applications.

Education

VIT-AP University, Vijayawada   **2021 - 2025**
B.Tech in Computer Science & Engineering   *8.82/10 CGPA*

Work Experience

Lumiq.ai   **Jan 2025 - Jun 2025**
Software Developer Intern   *Noida, Uttar Pradesh*

- Collaborated with a team of four to design and develop a chatbot system that integrates a large language model (LLM) with a database, allowing users to interact and retrieve relevant data through natural language queries.
- Extracted schemas, trained the model, fetched database responses, and handled user interactions through the frontend.
- Used a large language model to convert natural language inputs into SQL queries, allowing the chatbot to process user requests and generate executable database queries for data retrieval.
- **Tech Stack:** React, NodeJS, PostgreSQL, Large Language Model, Docker, GitHub, Postman API.

IamNeo Edtech Private Limited   **Sep 2023 - Nov 2023**
Front-end Developer Intern   *Remote*

- Developed Student Management System using front-end technologies such as HTML, CSS, React.Js, Redux.
- Created web pages for authentication, profile enrollment, attendance tracking, grading systems and profit management.
- Utilised GitHub for version control, Vercel for deployment, Postman for API testing and Redux for state management.

Projects

Claims Management System

- Designed and developed Claims Management System including role-based web pages for Admin, Policy Agent, and Policyholder, including dashboards for user details, policies and claims, managing policies and claims.
- Developed the frontend using React Js, Context API, backend with Node.js, Express.js and MongoDB as database.
- Implemented JWT Auth for authentication, bcryptjs for password hashing, built and integrated RESTful APIs.
- Utilised Docker for container, GitHub for version control, Postman for API Testing and Swagger for documentation.

Transcript Summarization Tool

- Developed a summarization tool to process and condense long chat or transcripts into short, meaningful summaries.
- Integrated Gemini Flash API model to handle large volumes of text and generate accurate summaries.
- Implemented chunk-wise text processing for lengthy transcripts to maintain summarization accuracy and performance.
- Built a React.js frontend with file upload functionality and integrated it with a Flask backend for summary generation.

Goal Setter

- Created a full-stack web application that helps users set, track, and manage their personal goals.
- Build the project using MongoDB for data, Express.js for APIs, React for the interface, and Node.js for the server.
- Use bcrypt.js for password hashing and jsonwebtoken (JWT) for authentication, employing JWT-based middleware to protect goal-related routes and ensure access for authenticated users.
- Implement Redux for managing application state, Git for version control and Postman for testing API endpoints.

Technical Skills

Languages: Java, JavaScript
Backend: Node.js, Express.js, MySQL, MongoDB
Frontend: React Js, Redux, TailwindCSS, HTML, CSS
Developer Tools: Postman, VS Code, Git, GitHub