Adithyan K

Kerala ,India

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EDUCATION

Manipal Institute of Technology   Bengaluru, India
B.Tech in Computer Science and Engineering - **CGPA: 8.1**   *Sep. 2022 – present*

EXPERIENCE

Full Stack Developer Intern   June 2024 – July 2024
Messen Labs   *Remote*
- Designed and implemented a license management website for a company specializing in AI simulation software, enabling monitoring and management of client licenses.
- Developed CRUD features for licenses and clients, integrated alerts for expiring licenses, and provided CSV export functionality for license data.
- Implemented a three-tier user privilege system, including read-only, full CRUD, and superuser access levels, allowing comprehensive user management and data protection.
- Dockerized the Next.js app and PostgreSQL database using Docker Compose, and deployed the services on a Google Cloud VM for reliable and scalable hosting.

Frontend Developer Intern   May 2024 - June 2024
Messen Controls LLC   *Remote*
- Developed a static site using Next.js to calculate the required flow coefficient for valves based on fluid conditions, implementing complex business logic.
- Utilized Zustand for efficient state management and seamlessly integrated the static site into the company's existing PHP-based shared hosting environment.
- Collaborated with the client to gather requirements and design the system architecture, ensuring the solution met all business needs and technical constraints.

PROJECTS

BiasBalance | *Python, Pydantic, Streamlit, OpenAI API, Docker, GitHub Actions*   Live Link
- Built a Streamlit-based web application to detect dataset bias and augment data, utilizing statistical tests and OpenAI API for intelligent augmentation
- Created an intuitive interface with interactive visualizations to analyze bias and variable independence in datasets.
- Automated CI/CD pipeline by integrating GitHub Actions to build Docker images and push them to Docker Hub.
- Integrated CSV export functionality for augmented datasets, simplifying data accessibility for end users.

CodeCatalyst | *Python, AutoGen, Docker, OpenAI API, Typer, Rich*   GitHub Link
- Developed a CLI tool to streamline developer environment setup, reducing setup time by over 65%.
- Leveraged multiple AI agents using AutoGen and the OpenAI API to enhance automation.
- Designed and implemented custom AutoGen Agent classes for specialized functionality.
- Automated both traditional and Docker-based developer environments, improving efficiency.

BunkBetter - Attendance Tracker | *MongoDB, ExpressJS, ReactJS, NodeJS, JWT,Vite*   Live Link
- Launched a comprehensive attendance tracking website for students, achieving 90% user satisfaction.
- Built with the MERN stack, including JWT authentication for secure access.
- Deployed on Vercel, ensuring scalability and reliability.

SKILLS

Languages: C, Python, JavaScript, HTML, CSS, Java, SQL

Frameworks: React, Next.js, Express.js, Node.js, Zustand, Drizzle ORM, LangChain, AutoGen, Typer, Rich, Streamlit

Databases: PostgreSQL, MongoDB

Developer Tools: Git, Docker, Docker Compose, Google Cloud Platform, Vercel, Vite

Soft Skills: Effective Communication, Team Collaboration, Problem Solving, Adaptability