Arman Ul Haq

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LinkedIn | **GitHub** | **Medium** | **Portfolio**

Summary

Frontend developer with a strong foundation in **HTML**, **CSS**, **JavaScript**, **React JS, shadcn and Tailwind CSS**, complemented by expertise in tools such as **Java**, **GIT**, **MySQL**, and **Figma**. Proficient in **Agile**, **Scrum**, and **SDLC** frameworks, with experience in designing scalable and efficient solutions. Passionate about algorithmic problem-solving and developing clean, maintainable code. Eager to further explore advanced computer science concepts and contribute to cutting-edge research. A collaborative and motivated learner dedicated to academic and professional excellence.

Experience

Intern at KPIT (December 2023 – September 2024)

- Worked on the **ADAS Probe Application** to collect and process data from vehicle signals, GPS, and camera images.
- Understood the distinction between **IPC** and **SOME/IP** protocols for inter-process and inter-ECU communication.
- Enhanced teamwork and communication through a structured **PSD** program.
- Understood the intricacies of the **Controller Area Network** (CAN) serial bus system and the low-cost **Local Interconnect Network** (LIN), ensuring robust and efficient data communication within vehicle networks.
- Developed a comprehensive understanding of both classic AUTOSAR and adaptive **AUTOSAR** frameworks, enabling the seamless integration of software components in complex automotive systems.

Education

B. Tech in Computer Science,
Vellore Institute of Technology, 2020 - 2024   **CGPA**: 8.86

Projects

AI Chat Application:

- **User Interface Developmen**t: Crafted an intuitive UI with **React.js**, leveraging **Vite** for optimized build times.
- **AI Integration**: Built a chat application powered by the **Gemini API**, enabling real-time, context-aware interactions.
- **Feature Implementation**: Integrated advanced functionalities, including chat history tracking and a collapsible sidebar for improved accessibility.
- **Deployment and Security**: Launched a secure, scalable application on **Vercel**, utilizing environment variables for enhanced security.
- **Responsive Design**: Ensured seamless functionality across all devices, optimizing the user experience for both desktop and mobile users.

Shopping website with advanced filtering:

- **User Interface Development**: Developed a user-friendly e-commerce interface using **React.js**, ensuring a smooth shopping experience.
- **Filtering Options**: Integrated **advanced filtering** capabilities based on categories, colors, and prices for enhanced product discovery.
- **Styling and Design**: Utilized **Tailwind CSS and shadcn/ui** for responsive and modern styling, ensuring an aesthetically pleasing layout.
- **Backend Functionality**: Implemented a local database to manage product listings and user interactions effectively.

News Aggregation website:

- **User Interface Development**: Designed a sleek and responsive interface using **React.js**, ensuring an engaging user experience for news aggregation.
- **News Aggregation**: Developed a news aggregator that fetches the latest headlines and stories from **NewsAPI**, keeping users informed across various categories.
- **Top Headlines Carousel**: Implemented a **carousel** feature to showcase significant headlines, allowing users to stay updated effortlessly.
- **Category Filtering**: Enabled users to explore news by specific categories such as Politics, Sports, Entertainment, and Business for tailored content discovery.
- **Responsive Design**: Optimized the application for all devices, ensuring a seamless experience on desktops, tablets, and mobile phones.

Motion Detection Application:

- **Motion Detection**: Developed a Python application that utilizes **OpenCV** for real-time motion detection through a webcam, capturing images when movement is detected.
- **Email Notification**: Integrated functionality to send email notifications with the captured images using the **smtplib** library, ensuring timely alerts.
- **Image Management**: Implemented automatic cleanup of previously captured images to efficiently manage storage space.
- **Continuous Monitoring**: Designed the application to run in a continuous loop, actively monitoring for motion until manually stopped.
- **Technologies Used**: Utilized **Python**, **OpenCV**, and **smtplib** for image processing and email functionalities, along with **EmailMessage** for structured email content.

Extra-curricular activities

- Core member of the **content team** in VIT's **Bulls and Bears club**.
- Successfully conducted Shark Tank 2.0 event during VIT's annual technical event, **VTAPP, 2022**.
- Core member of the **events team** in **SEDS VITAP chapter**.