

TUFAIL AHMED

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Summary

Final-year Electronics and Communication Engineering student with skills in MERN Stack development and IoT. Proficient in HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB (Mongoose). Passionate about building modern web applications and smart IoT solutions while continuously learning new technologies and solving real-world problems.

Projects

The Offline Co. | HTML, CSS, Tailwind CSS, JavaScript, React.js, Express.js, REST APIs, MongoDB [GitHub](#)

- Developed a responsive frontend website for a digital well-being platform promoting immersive offline experiences.
- Designed reusable UI components with Tailwind CSS and modern responsive layouts.
- Optimized the website for desktop, tablet, and mobile devices.
- Deployed the application on Vercel and managed version control using Git and GitHub.

GitHub User Finder | HTML, CSS, JavaScript, GitHub REST API [GitHub](#)

- Developed a responsive web application to search and display GitHub user profiles using the GitHub REST API.
- Implemented asynchronous data fetching with `fetch()` and `async/await` for real-time user and repository information.
- Built a dynamic UI displaying profile details, followers, repositories, stars, forks, and latest repository updates.
- Added responsive design, input validation, loading states, and error handling for an improved user experience.

Weather App | HTML, CSS, JavaScript, Weather API [GitHub](#)

- Built a responsive weather application using JavaScript and a Weather API.
- Displayed real-time temperature, humidity, and wind speed.
- Added dark/light mode and dynamic UI updates.
- Enhanced API integration and responsive design skills.

Smart Blind Walking Stick | Arduino, C++, IoT [GitHub](#)

- Developed an IoT-based smart walking stick for visually impaired users.
- Used Arduino Nano and HC-SR04 ultrasonic sensor for real-time obstacle detection.
- Integrated rechargeable battery, Battery Management System (BMS), and Type-C charging.
- Performed hardware integration, Arduino programming, testing, and prototype development.

Technical Skills

- **Languages:** Java, JavaScript, C
- **Frontend:** HTML5, CSS3, Tailwind CSS, JavaScript,
- **Backend:** Node.js, Express.js
- **Database:** MongoDB[Mongoos]
- **Tools:** Git, GitHub, VS Code, Arduino IDE
- **Core Concepts:** , Data Structures and Algorithms, DOM Manipulation, Responsive Design, IoT

Education

Haldia Institute of Technology

B.Tech. Electronics & Communication Engineering (CGPA: 6.92/10)

Haldia, West Bengal

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