

SYED FURQUAN AHMAD

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TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, C, Java

Frameworks: React, React Native, Tailwind CSS, Gatsby, Node.js

Tools/Technologies: Git, Linux, Arduino (AVR)

PROJECTS

NEXTDEV (Portfolio) | nextdev.in | *React, Tailwind, MUI, Node.js, Express, MongoDB, Redis* Nov 2022 – Present

- Built a responsive full-stack MERN website with a React frontend styled with Tailwind CSS
- Developed the backend as a Node.js Express server for fetching data from the MongoDB database and static assets
- Integrated Nodemailer in the backend for message posting to a custom email
- Implemented a Redis cache on Redis Cloud to achieve 4x faster response times
- Hosted the frontend on Vercel, the backend on Railway and the database on MongoDB Atlas

WebEnv | webenv.nextdev.in | *React Native, JavaScript, C/C++* May 2022 – Jan 2023

- Developed a full-stack cross platform application with a React Native frontend for an IoT device monitoring environment data and serving it over a JSON API
- Used an ESP32 IoT device to monitor the data and host it on an HTTP webserver (on the device itself)
- Fetched and visualized the data with a React Native app (available online as a web demo)
- Used Cloudflare to route the IoT server to a backend domain

TCTP.xyz (Tech Blog) | tctp.xyz | *Gatsby, GraphQL, Tailwind, React, JavaScript* Apr 2022 – Jan 2023

- Developed a responsive static Gatsby blog from scratch (no templates) with Disqus, Netlify CMS and hosted on a Netlify backend
- Used Tailwind CSS for all styling which allowed a mobile-first design
- Integrated Netlify CMS to easily post blog posts with images, formatted text, etc.
- Hosted the entire blog on a free Netlify backend (with 90+ scores on Google Lighthouse)

ESPWeb | espdev.cloud | *C/C++, JavaScript, HTML, CSS* Feb 2023 – Mar 2023

- Hosted an entire responsive website on a NodeMCU microcontroller board with just 4MB of flash and 128KB of RAM
- Wrote the website using standard JavaScript/HTML/CSS and rendered some basic server information (uptime, memory, etc.)
- Wrote the backend HTTP webserver in standard C to run in the memory-constrained environment
- Exposed the server information as a JSON API endpoint and received it using axios
- Added Google Analytics to observe real time user data

EDUCATION

Maulana Abul Kalam Azad University of Technology West Bengal, India
Bachelor of Technology in Electronics and Communication Engineering Aug. 2019 – Jul 2023

International School Bihar, India
12th Board (Central Board of Secondary Education) Apr 2019

ACHIEVEMENTS/AWARDS

TCS Codevita Season 10 Qualifier May 2022
TCS Codevita Season 10

Winner of various intracollege coding competitions May 2020 – Present
Guru Nanak Institute of Technology Kolkata, India