

# SYED FURQUAN AHMAD

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## EXPERIENCE

### Fullstack (Testing) Trainee

Jun 2023 – Present

IBM Consulting

Remote

- Led a team of four trainees to build a multi-page frontend for a translation API
- Implementing multi browser Selenium tests for web-based applications using Java

## PROJECTS

### NEXTDEV (Portfolio) | [nextdev.in](https://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](https://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](https://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](https://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

### Guru Nanak Institute of Technology

Kolkata, India

Bachelor of Technology in Electronics and Communication Engineering

Aug. 2019 – Jul 2023

### International School

Patna, Bihar

12th Board (Central Board of Secondary Education)

Apr 2019

## TECHNICAL SKILLS

**Languages:** JavaScript, HTML/CSS, C, Java

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

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

## 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