

# SYED FURQUAN AHMAD

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## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, SQL, HTML/CSS, C, Java

**Frameworks:** React, Next.js, React Native, FastAPI, Tailwind CSS

**Tools/Technologies:** Git, PostgreSQL, Linux

## PROJECTS

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**NEXTDEV (Personal)** | [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 with DigitalOcean and the database on MongoDB Atlas

**Frontend Portfolio** | [frontend.nextdev.in](https://frontend.nextdev.in) | *React, Next.js, TypeScript, Tailwind, SQL, Python, Flask* Aug 2023 – Present

- Developed a responsive website built with React and TypeScript to catalog the mono repo
- **phone-store** ([store.frontend.nextdev.in](https://store.frontend.nextdev.in)): Developed a backendless Next.js store to display ~1000 items from an Amazon RDS PostgreSQL db, using a Flask app to procedurally generate items with Google PaLM (LLM)
- **sql-editor** ([sql.frontend.nextdev.in](https://sql.frontend.nextdev.in)): Built a responsive, backendless SQL Editor with Next.js running SQLite in the browser using WebAssembly
- **SAT-Results** ([satresults.nextdev.in](https://satresults.nextdev.in)): Developed a responsive React app to display, find, edit & delete SAT results and developed a Spring Boot REST API for it

**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 REST 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

**ESPWeb** | [espdev.cloud](https://espdev.cloud) | *C/C++, JavaScript, HTML, CSS* Feb 2023 – Aug 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

**TCTP (Tech Blog)** | [tctp.espdev.cloud](https://tctp.espdev.cloud) | *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.

## EDUCATION

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**Maulana Abul Kalam Azad University of Technology**  
*Bachelor of Technology in Electronics and Communication Engineering*

West Bengal, India  
Aug. 2019 – Jul 2023

**International School**  
*12th Board (Central Board of Secondary Education)*

Bihar, India  
Apr 2019

## ACHIEVEMENTS/AWARDS

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**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