SYED FURQUAN AHMAD

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML/CSS, C, Java
Frameworks: React, Next.js, React Native, FastAPI, Tailwind CSS
Tools/Technologies: Git, PostgreSQL, Linux

PROJECTS

NEXTDEV (Personal) | 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 | *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): Developed a backendless Next.js store to display ~1000 items from an Amzon RDS PostgreSQL db, using a Flask app to procedurally generate items with Google PaLM (LLM)
- **sql-editor** (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): 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 | *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 | *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.nextdev.in | *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

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*