SYED FURQUAN AHMAD

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML/CSS, C, Java
Frameworks: React, Next.js, FastAPI, React Native, 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 a Node.js Express server backend 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
- Created a responsive website built with React and TypeScript to catalog the monorepo
- **phone-store** (store.frontend.nextdev.in): Developed a backend-less Next.js store to display ∼1000 items, procedurally generated with a Flask app using Google PaLM LLM, stored on Amazon RDS PostgreSQL
- **sql-editor** (sql.frontend.nextdev.in): Built a responsive, backend-less SQL Editor with Next.js running SQLite in the browser using WebAssembly
- **SAT-Results** (satresults.nextdev.in): Created a responsive React app with a Spring Boot REST API to display, find, edit & delete SAT results

Indeed-Scraper | scraper.nextdev.in & dump.scraper.nextdev.in | *Python, FastAPI, MongoDB*   Dec 2023 – Present
- Developed a scraper for Indeed (w/o 3rd-party libraries) to scrape job data including location, salaries, etc.
- Built a RESTful FastAPI API for the scraper with endpoints to exhaustively scrape for keywords/locations, target specific pages, etc.
- Scraped 70,000+ jobs from in.indeed.com for common search terms & locations all over India, storing them in a MongoDB database with an API for access

WebEnv | webenv.nextdev.in | *React Native, JavaScript, C/C++*   May 2022 – Jan 2023
- Developed a full-stack cross platform React Native application with an IoT device monitoring the environment and serving it over a REST API
- Used an ESP32 IoT device to collect the data and host it on a webserver on the device, using Cloudflare to tunnel to a live domain
- Fetched and visualized the data with the React Native app (available online as a web demo)

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

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*