

# 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, FastAPI, React Native, 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 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** | [sorcerer.live](https://sorcerer.live) | *React, Next.js, TypeScript, Tailwind, SQL, Python, Flask* Aug 2023 – Present

- Created a responsive website built with React and TypeScript to catalog the monorepo
- **μSorcerer** ([react.sorcerer.live](https://react.sorcerer.live)): Created a responsive Markdown-based rich text editor using React and Draft.js
- **phone-store** ([store.frontend.nextdev.in](https://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](https://sql.frontend.nextdev.in)): Built a responsive, backend-less SQL Editor with Next.js running SQLite in the browser using WebAssembly

**Indeed-Scraper** | [scraper.nextdev.in](https://scraper.nextdev.in) & [dump.scraper.nextdev.in](https://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](https://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** | [esp.sorcerer.live](https://esp.sorcerer.live) | *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

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**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

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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