Mahmudur Rahman

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SUMMARY

Backend-focused Full-Stack Software Engineer with **4 years** of experience designing and implementing scalable systems using **Node.js, Express.js, MongoDB, React, React-Native and AWS**. Strong background in software architecture, distributed systems, and API design, with proven expertise in optimizing performance and reducing operational costs. Skilled in collaborating with globally distributed teams to deliver robust, high-performance applications that serve millions of users while enhancing scalability and user experience.

WORK EXPERIENCE

- **Footylight (FCONNECT)** — Remote
  Software Engineer — *April 2022 - Present*
  - **Footylight App**: Serves football game-content aggregated from across the internet, improved **32.4%** active users month-over-month using **React Native**, implementing **4 microservices** focusing on operational cost efficiency, high performance, better user engagement, low latency and manging high traffic. **App Link**
  - **FConnect Widget**: Contributed to **26+** publishers' API and **5 microservices** for the widget and video feed on ElasticSearch, Node.js and JavaScript. Built API from inventory data, optimized performance, and reduced **20%** Showcased the In image widget with an anchor-expandable mobile solution at the **DMEXCO** Conference.
  - **Data Pipeline Development**: Built **10** data parser with **ELK** framework, deploying via **Docker** on AWS ECS and Lambda to parse daily data. Created a Material-UI form and dashboard for data collection, integrating ELK framework on AWS to fetch and update Footylight's data inventory.
  - **Master Dashboard**: Developed an internal dashboard for monitoring of widgets, parsers, APIs, ads, and costs. Provided streamlined access to **7** departmental key metrics and daily reports for administrators
  - **Widget Builder**: An **Automation** Tool for Widget code generation without writing a single piece of code. AWS Amplify and S3 to deploy and host a Next.js application, enabling seamless, code-free widget generation.
  - **First-Party Data**: Built a system to monitor user behavior and synchronize data across cost management and inventory systems, ensuring real-time consistency and actionable insights with **Google Analytics**.

  Technologies: Node.js, React, Next.js, AWS (DynamoDB, Cloudfront, Route53, Api-Gateway, EC2, S3, ECS, Lambda, Opensearch), MongoDB, Docker, Material-UI, Tailwind, ELK framework, React-Native, Google Analytics.

- **InfancyIT** — Sylhet, Bangladesh
  Trainee Software Engineer — *October 2020 - December 2020*
  - **Inquiry System Development**: Designed a query interface to retrieve data, enhancing efficiency and meeting client needs with a user-focused design.

  Technologies: SQL, PHP, MySQL

EDUCATION

- **Shahjalal University of Science and Technology** — Sylhet
  Bachelor of Science in Computer Science and Engineering — *February 2018 - March 2023*

PROJECTS

- **Swapnanagar**: Built a charity platform **swapnanagar.org** featuring a React/Bootstrap frontend, Strapi backend, and PayPal integration, enabling dynamic donation management and activity tracking.
  Technologies: React, Bootstrap, Strapi, PayPal API, MongoDB, JavaScript, Node.js

- **Hyperledger Fabric Management System**: Enhanced backend for Docker-based network management, simplifying user interactions by removing CLI complexities.
  Technologies: Hyperledger Fabric(Blockchain), Docker, Node.js, JavaScript

TECHNICAL SKILLS

- **Frontend**: React.js, Next.js, React Native, Redux, TypeScript, JavaScript, HTML, CSS, Tailwind, Material-UI
- **Backend**: Node.js, Express.js, Python (Django), PHP (Laravel), REST, GraphQL, Microservices
- **Cloud & DevOps**: AWS (Lambda, ECS, S3, DynamoDB, CloudFront), Docker, CI/CD (GitHub Actions), ELK Stack
- **Database & Tools**: MongoDB, MySQL, Firebase,Git, Google Analytics, GPT