

SEFAT ANAM

Software Engineer

CONTACT

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SUMMARY

With a robust industrial background, I specialize in designing, developing, deploying, and maintaining diverse web and mobile applications. My expertise spans across Angular, Ionic, and NodeJS, coupled with a proficiency in AWS-Amplify for cloud-based deployments.

I'm dedicated to enhancing app load time, performance, and accessibility in Angular web applications, aiming to create user-friendly and efficient software accessible to diverse audiences. Seeking opportunities to engage with versatile technologies is my passion. Understanding the mechanics beneath the surface drives my curiosity.

LANGUAGE

- TypeScript
- JavaScript
- C#

SKILLS

- Angular
- Ionic
- React
- NodeJS, NestJS
- .NET Web API
- Firebase, MongoDB, MS SQL Server & SQLite
- AWS-Amplify, AWS S3 Bucket
- Azure Container Registry, Cosmos DB, Azure Blob Storage
- Docker & Docker Compose
- Git & Github Actions
- Jira, Confluence & Bitbucket
- Tailwindcss
- NgRX, RxJS & Redux
- Vite & Vitest
- Cypress & Jest
- Figma

EXPERIENCE

SEPTEMBER 2023 - PRESENT

DRIFTING DESK LLC - ANGULAR DEVELOPER (REMOTE)

Technology Stack : Angular & .NET5.

Contributor to a web based document management tools (frontend) used by millions in Germany known as MetasonicOne's OneClient and WebCapture.

My role involves seamlessly integrating new features with existing well-established functionalities. This includes converting complex data shapes into Excel format, facilitating communication between browser tabs within the same application, and highlighting coordinates based on pre-selected table data in documents (PDF or image) using the Leadtools library in vanilla JavaScript. Additionally, I contribute to enhancing the performance of custom components by optimizing change detection mechanisms. I also specialize in customizing and refining the behavior of context menus within the browser environment.

MARCH 2022 - AUGUST 2023

METADESIGN SOLUTIONS - SOFTWARE ENGINEER (REMOTE)

Technology Stack : Angular, NodeJS, AWS-Amplify, Ionic & .NET5.

Experienced in building complex web applications using NodeJS, Angular, and MongoDB. Skilled in optimizing APIs for mobile apps and integrating cloud-based storage solutions like AWS-S3 for secure asset management. Improved mobile app (Ionic) performance by implementing advanced optimization techniques, enhancing user experiences.

Contributed significantly to OpenEMIS Core and upgraded an Ionic project for the latest Android & iOS devices. Developed a comprehensive system for managing students, guardians, and staff. Additionally, revamped JobDroid, migrating from AngularJS to Angular 16 (developed more custom multifunctional searchable components) with Angular Universal for improved SEO.

Proficient in deploying features across development and production environments using AWS-EC2 for optimal system stability. Collaborative team member, ensuring timely delivery of top-quality software by working closely with developers and designers across India, Brazil, Singapore and Australia.

OCTOBER 2021 - FEBRUARY 2022

AIT'S IDEA LTD - SOFTWARE ENGINEER

Technology Stack : Angular, .NET & Ionic

I work on their existing ERP solution & a E-Commerce project and responsible for delivery enterprise grade UI experience to end user. Improving rendering performance & optimizing bundle size.

Delivered two advanced mobile apps using Ionic and TailwindCSS, supporting English and Bangla languages. Introduced a game-changing lazy-loading feature to an ERP solution, boosting loading speed and improving user satisfaction. Enhanced frontend security and accessibility by restructuring app URLs based on server permissions.

Streamlined code structure by eliminating duplication and implementing efficient abstraction techniques. Proactively tackled performance issues like change detection and memory leaks, ensuring smooth operation with NgZone and subscription methods.

Implemented global interceptors and error handlers for better application control and stability. Enhanced UI flexibility by dynamically loading menus with Angular portal and template outlet references.

Optimized module and bundle sizes, leading to a more efficient system. Strengthened application reliability with comprehensive testing using Cypress & Jest.

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EDUCATION

2018 - 2021, Atish Dipankar University of Science & Technology - Bachelor of Science in Computer Science and Engineering

Activities

1. Participated in various project showcases in both intra and inter-university competition.
2. Participated in Poster Presentation (Poster Name: GSM based prepaid billing system Energy Meter Using Arduino), IEEE Branch Fest2018, BUP
3. Participated in Hackathon (Project Name: Travel Guide System - Web Application), BUP Techsurgence 2019.
4. Participated in IUPC- Technocracy 2019, RUET
5. Participated in InsiderDevTour19, Microsoft Bangladesh.
6. Participated in Workshop on IoT using NodeMCU, ADUST, July 2019.
7. Participated in Google Cloud DevFest'19 Bangladesh -(At Daffodil International University, HACKTHECODE Contest-01 Winner), October 25
8. Participated in National Collegiate Programming Contest 2020 - (At Military Institute of Science and Technology), February 22.

HOBBIES

- Travel
- Photography
- Tech Exploration
- Cooking
- Sleep

EXPERIENCE

OCTOBER 2020 - SEPTEMBER 2021 AITS IDEA LTD - JR SOFTWARE ENGINEER

Technology Stack : Angular, .NET

Developed custom components using Angular Material & PrimeNG, improving user interaction and visual appeal. Designed a flexible product entry page to meet client requirements, ensuring smooth operation.

Upgraded ERP project from Angular v7 to v12, addressing all compatibility issues and keeping functionalities current. Established robust authentication using NGRX for enhanced security.

Implemented role-based permissions management using route guards and custom directives/pipes, bolstering application security. Collaborated on backend development with .NET5 to create custom APIs, including features like cascading dropdowns and auto-completion, expanding application capabilities.

APRIL 2020 - SEPTEMBER 2022 AITS IDEA LTD - ENGINEER INTERN

Technology Stack : Angular, .NET

Expertly managed Angular forms, incorporating custom and async validations for accurate data handling. Created dynamic tables with pagination in Angular, improving data presentation and user engagement.

Integrated frontend Angular forms and tables with .NET5 APIs, ensuring seamless data exchange and optimal functionality.

PROJECTS

ALUMNI CONNECT PORTAL | FINAL YEAR DEFENCE PROJECT

A university can easily manage its alumni with this app. Alumni can post job circulars and recruit from their university. Authorized students are able to see alumni's latest posts. Also, have a super admin who can manage all things and also announce events. The app is available for the web, android & iOS.

Technology Stack: NET5, PostgreSQL, Angular, Heroku, Docker & Ionic.

MARINE FISHERIES ACADEMY

The client is planning to add several features to their mobile apps, including links to the MFA website and Facebook page/profile, the ability to upload and view PDF files of Cadet and Program update lists, integration of an Employee attendance system to view attendance reports, and the addition of a Vehicle and Boat tracking app. These features are intended to provide users with convenient access to relevant information and improve the overall functionality of the apps.

Technology Stack: NET5, PostgreSQL, Angular, Heroku, Docker & Ionic.

Play Store : <https://play.google.com/store/apps/details?id=com.mfa.app>

IOS Store: <https://apps.apple.com/us/app/mfa-marine-fisheries-academy/id1638485521>

CRYPTO-BROWSER-STORAGE NPM PACKAGE | OPEN SOURCE

A package for secure local storage data by encryption using Crypto.JS for Angular application. The crypto-browser-storage to support angular version upto 14 where Crypto.JS don't support angular for typescript definition. An open-source npm package for secure local storage data by encryption using Crypto.JS at Github @nixgram.

NPM Link: <https://www.npmjs.com/package/crypto-browser-storage>

WORDS-CLI | OPEN SOURCE

Find synonyms of any word from terminal, Build with C#. You can also install via **nuget** package.

GitHub Link: <https://github.com/sefatanam/WordsCli>

Nuget Link: <https://www.nuget.org/packages/WordsCli>

MORE ON GITHUB

Other works available here <https://github.com/sefatanam>