Shah Alvi Hossain *Experienced ReactJS Engineer*

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SKILLS

Programming Languages: JavaScript, TypeScript, HTML, CSS, Java, SQL
Frameworks and Others: React JS, Express JS, Node JS, JQuery, Git

PROFESSIONAL EXPERIENCE

Open-Source Contributor*   2024 – present | Dearborn, MI, United States
Non-Profit Software Development Group ↗
- Contributing to **dearborncodingclub.com** ↗ as a lead frontend engineer using **React** and **Typescript** to produce responsive, reusable and readable code.
- Helped split backend into Authentication server written in **Go;** an API server written in **Python** and implemented **JWT** based **AuthService** on frontend to ensure security and maintainability.
- Designed relational database schema in **PostgreSQL** for storing user data.
- Developed a collection of universal providers and a suite of reusable and interactive UI components including cards, scrollable carousels, loading indicators, pagination and toast notifications using **TS**, **JSX** and **CSS**.
- Designed numerous pages and hooks for page functionality, including the homepage, login page, profile page, and community page.

Full Stack Software Engineer   12/2022 – 05/2023
REVE Systems ↗
- Spearheaded the **CMIS** project, integrating front-end and back-end components using **JSP**, **Servlet**, **Java**, **JS**, and **Tomcat.**
- Implemented a comprehensive **online signature solution** that supports real-time document verification in the **Parliament House of Bangladesh**; the system is currently adopted by 58 legislative officials for seamless document handling.
- Integrated the online signature solution with legacy systems, enhancing overall system performance and enabling seamless processing of 25+ documents monthly for expedited approvals.
- Conducted **interactive training sessions** with 50+ end users at **The Parliament House of Bangladesh**; feedback revealed a 25% increase in operational efficiency, directly linked to boosted system usage and user familiarity.

Software Engineer   07/2022 – 11/2022
Loosely Coupled Technologies ↗
- Designed and enforced a seamless integration between the **EZ Assist CRM system** and third-party REST api using **NodeJS**; streamlined data flow and reduced manual entry time for the customer service team.
- Rebuilt the entire invoice generation system with **Node JS** and **Express,** optimizing paper space for printing and reducing printing costs by 52%.
- Innovated interactive UI components utilizing **Angular JS** that improved user navigation by 35%, resulting in a significant increase in task completion rates and overall productivity for end-users.
- Executed comprehensive updates to refine application features; achieved a notable decrease in customer support inquiries related to feature functionality within three months.

EDUCATION

Bachelor of Science in Computer Science and Engineering   05/2017 – 05/2022
*NORTH SOUTH UNIVERSITY*
Course Work: OOP, Data Structures and Algorithms, Database Design, Operating Systems, Web Technologies, Software Engineering, Machine Learning

PROJECTS

TSDAORM ↗
- TSDAORM is a lightweight **NPM Package.** It is a **TypeScript** based **DAO** style **ORM** for **MySql.**
- **NPM Link:** https://www.npmjs.com/package/tsdaorm ↗

Visualizer ↗
- A wix like web application for building Functional-UI.
- **Contributions**: Navbar & Sidebar ↗ : Upgraded Navbar and Sidebar from legacy code to **ReactJS**.

WORDS ↗
Tech Stack: PHP, JavaScript, JQuery, Bootstrap, HTML, CSS, MySQL
- Engineered a comprehensive online reading and writing platform that incorporated social networking features.
- Established a ranking and badge system based on user activity, for fostering a vibrant community atmosphere that encouraged knowledge sharing among participants.

NSUVMS ↗
Tech Stack: PHP, JavaScript, HTML, CSS, MySQL
- Web portal for NSU (North South University) students' vaccine data management.
- Developed a secure input system for vaccination records and personal information.
- Created a user-friendly interface for administrators to seamlessly access and interpret visual data on vaccination status.

KITS 19 CHALLENGE ↗
Tech stack: Python, Pytorch
- A machine learning solution for medical imaging in the Kits 19 Challenge; implemented **U-Net** and **FCN** methodologies to enhance kidney and tumor detection accuracy, achieving a dice coefficient of 0.8533.

JIS CHROME EXTENSION ↗
https://github.com/alvi1316/JIS-Chrome-Extension ↗
- A **chrome extention** built with **html, css, js, chrome api** that **scraps** linkedin and indeed to help users to log job applications.