

ZARIF AMIR SANAD

FULL-STACK DEVELOPER

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 [Portfolio](#)  [GitHub](#)



PROFILE SUMMARY

Full-Stack Developer with hands-on experience in .NET, PHP, JavaScript, ReactJS, and AngularJS. Proven track record of building scalable, responsive web applications and managing complex software systems. Skilled at crafting efficient solutions aligned with business requirements, with a strong focus on clean architecture, UI/UX best practices, and collaborative development.

SKILLS

Languages: C#, PHP, JavaScript, Python, SQL, HTML

Frameworks & Libraries: Laravel, .NET, React.js, Next.js, AngularJS, Tailwind CSS, Bootstrap

Databases: MySQL, SQL Server

Tools & Platforms: Docker, Docker Compose, Git, GitLab, Nginx

Version Control & DevOps: Git, GitLab CI/CD, Docker Compose

Web Technologies: REST APIs, Responsive UI Design

Authentication & Authorization: OAuth2, JWT, Laravel Sanctum/Passport, ASP.NET Identity

API Design & Integration: RESTful APIs, API versioning, Pagination

Architecture & Design Patterns: N-tier Architecture, SOLID Principles, MVC, Repository Pattern, Dependency Injection, Separation of Concerns

Deployment & CI/CD: CI/CD pipelines (GitLab CI, GitHub Actions), Docker, Nginx, Environment

WORK EXPERIENCE

Software Engineer

MNA Associates (Deployed to BIFPCL – Rampal Power Plant Site)

Dec 2024 – Present

- Assigned to Bangladesh-India Friendship Power Company Ltd. (BIFPCL) at Rampal site to develop software.
- Currently developing a comprehensive management software system for BIFPCL, tailored to site-specific operational needs.
- Coordinating with on-site engineers and administrative teams to gather requirements and ensure system alignment with workflow.
- Responsible for end-to-end development, deployment, and maintenance of the new solution.

Software Engineer Intern → Junior Software Engineer

Quad Theory Ltd

Jan 2023– Jun 2023(4-month internship + 2-month full-time)

- Maintained and extended features in Sundarban, a car parts selling and management system.
- Developed and optimized new modules for inventory tracking and order processing
- Collaborated with the team to enhance system stability, UI responsiveness, and backend logic.
- Contributed to the development of QT Sales & Inventory, focusing on product entry, stock movement, and sales analytics

EDUCATION

Computer Science Engineering (CSE)

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

CGPA: 3.88 / 4.00

📅 9/2019 - 8/2024

Higher Secondary Certificate (HSC)

GOVERNMENT HARAGANGA COLLEGE

📅 2019

Secondary School Certificate (SSC)

SECONDARY SCHOOL CERTIFICATE (SSC)

📅 2016

PROJECTS

BIFPCL

An enterprise-grade software suite developed for Bangladesh-India Friendship Power Company Ltd. (BIFPCL) at Rampal Power Plant, comprising four integrated components for public information and internal operations:

- **bifpcl_home (Public Landing Site):** Public portal providing notices, tenders, events, and job circulars. Built with TypeScript, React.js, Tailwind CSS, and Vite.
- **bifpcl_ems (Employee Management System):** Internal platform for managing and updating content displayed on bifpcl_home. Developed with TypeScript, React.js, MUI, and Vite.
- **bidpcl_Backend (Backend API):** .NET Core 8 with MVC architecture and JWT authentication, handling business logic and secure data exchange.
- **BIFPCL Database (SQL Server):** Central data store using Entity Framework Code-First approach with User-Based Access Control (UBAC) for fine-grained permission management.

Integration: Components communicate via secure RESTful APIs, ensuring a modular, scalable, and maintainable system.

Technologies: TypeScript, React.js, Tailwind CSS, MUI, Vite, .NET Core 8, JWT, SQL Server.

Sundarban Courier Service (Maintenance Automation System)

A vehicle Maintenance Automation system for Sundarban Courier Service to streamline scheduling, maintenance tracking, and spare parts inventory. The system supports service scheduling, vehicle history, inventory tracking, and reporting, with real-time updates via RESTful APIs. I updated existing code, added new modules, and enhanced the reporting system, implementing backend logic using .NET with SQL Server stored procedures.

Technologies: AngularJS, .NET, SQL Server, Stored Procedures.

Club Monitoring Portal

A university club administration platform for managing memberships, events, announcements, and financial records, providing administrators with dashboards to oversee club activities. The platform supports member management, event scheduling, and announcements, integrated through RESTful APIs to ensure secure and efficient data flow. I led frontend development in React, designed backend APIs in Laravel, created database schemas in MySQL, and worked closely with university stakeholders to define and refine features.

Technologies: React, Laravel, MySQL.

REFERENCE

RASHIDUL HASAN NABIL

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DR. AKINUL ISLAM JONY

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PUBLISHED RESEARCH

[Impact of ChatGPT on Academic Performance among Bangladeshi Undergraduate Students](#)

Published date- 8th Aug,2023

[Breaking the Silence – Uncovering the Root Causes of Depression among Undergrad Students in Bangladesh](#)

Published date- 16th Nov,2023