

Hredoy Sen

I am a Software Engineer with 4+ years of experience, specializing in modern front-end development (Angular, React), scalable backend solutions (Node.js, Laravel, PHP), and cloud technologies (Firebase). My expertise extends to Git, CI/CD, and database design (RDBMS), ensuring robust, high-performance applications.

I am deeply committed to clean architecture, SOLID principles, and industry best practices, crafting solutions that are not only efficient but also maintainable and scalable. With a strong foundation in modern UI/UX, I build intuitive, user-centric interfaces that enhance engagement and accessibility.

Beyond coding, I thrive in collaborative, agile environments, where teamwork and continuous learning drive success. I am eager to contribute my skills to an innovative team that values quality and cutting-edge development.

I look forward to the opportunity to discuss how my expertise aligns with your team's goals.

Work Experience

Software Engineer, Brac IT Service Ltd.

Oct 2022 - Present

- **Cloud Billing Project (Angular 19)**
 - Led the development of a scalable cloud-based billing system with real-time cost visualization.
 - Integrated Angular with cloud APIs, optimizing data handling and performance.
 - Implemented version control strategies, ensuring all modules use the latest, bug-free library versions aligned with modern tech stacks.
- **ERP System (Angular 18) – UI & Reusable Component Design**
 - Designed reusable UI components for ERP, ensuring a consistent and maintainable UI.
 - Built a private NPM library for ERP-specific components, streamlining development across multiple projects.
 - Optimized UI responsiveness and performance, improving accessibility across devices.
- **SSO & Authentication System**
 - Designed and implemented SSO authentication across company applications.
 - Integrated Keycloak for secure authentication, role-based access, and seamless user management.
 - Ensured a scalable authentication architecture, enhancing security and user experience.
- **Private NPM Libraries & Version Control**
 - Developed and published custom Angular libraries to a private NPM repository for company-wide use.
 - Managed version control and dependency alignment, ensuring all applications use stable, up-to-date libraries.
 - Improved code reusability and maintainability, reducing development time across projects.
- **USIS (BRAC University Student Management System)**
 - Developed the front-end with Angular 14, optimizing performance and UI responsiveness.
 - Implemented dynamic UI controls, allowing real-time user-driven adjustments.
 - Led a team in best Angular practices, ensuring code quality and maintainability.
- **myBrac HRIS**
 - Developed the HR Information System UI using React and TypeScript.
 - Designed a user-friendly CMS for HR operations, improving efficiency.
- **Technical Leadership & Team Mentorship**
 - Guided the team in best coding practices, Angular architecture, and UI/UX design.
 - Conducted technical training sessions on SOLID principles, modular design, and scalable solutions.
 - Managed version control to align all projects with the latest stable technologies.

At BRAC IT, I have been instrumental in building scalable front-end architectures, developing reusable NPM libraries, implementing secure authentication (SSO with Keycloak), and mentoring the team. My focus on modern technologies, cloud integrations, and best development practices has enhanced project efficiency and maintainability.

Contact

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Skills

Front-End Development

- Angular 15+/18+
- React / React Native
- TypeScript, JavaScript
- Storybook
- Formly
- UI/UX principles
- Material UI
- Ant design / Nz-Zorro
- Tailwind CSS, Bootstrap
- Daisy Ui
- Ag-Grid
- FullCalendar, Monaco Editor

Back-End Development

- Node.js,
- Express.js
- Laravel (PHP)

Database & Cloud

- MySQL
- PostgreSQL
- Firebase Firestore
- MongoDB
- Database Design
- RDBMS Principles
- Firebase Functions

DevOps & Tools

- Git
- GitHub & GitLab
- Docker
- CI/CD (GitHub Actions)
- Postman

Testing & Best Practices

- Jest
- Karma
- k6
- SOLID Principles, Clean Code, Agile Development

Project Management & Collaboration

- Jira
- Trello
- Microsoft Office 365
- Notion

Software Trainee, Wipro Ltd. (Contractual)

Apr 2022 - Sep 2022

- Tested UI components using Jest and Karma, achieving 100% pass rate for core features.
- Performed load and performance testing with K6, optimizing system efficiency.
- Reduced bug recurrence by 30% through rigorous test case execution and debugging.
- Ensured comprehensive test coverage for all new features, enhancing software stability.

Software Engineer, Tech Mahindra (Contractual)

Dec 2021 – Mar 2022

- Developed employee management, loan (DPS), and salary tools using PHP (Backpack for Laravel).
- Designed and optimized database structures, improving query performance by 40%.
- Built dynamic dashboards for HR and finance teams, enhancing data accessibility.
- Implemented secure authentication and role-based access, improving system security.
- Optimized API performance, reducing response times by 30%.

Key Impact: Delivered efficient, scalable financial and HR tools, improving data processing and user experience.

Intern, Micropro Infotech

Jul 2021 – Nov 2021

- Gained hands-on experience in software development and testing.
- Worked on basic web development projects, enhancing coding skills.
- Learned industry best practices and collaborative development workflows.

Educational Background

Bachelor of Technology (B.Tech), Computer Science and Engineering

Adamas University, Kolkata, India

2018 - 2022

CGPA: 7.32 (out of 10.00)

Higher Scenodary School Certificate

Chattogram Cantonment Public College, Chattogram, Bangladesh

2016 - 2017

GPA: 4.00 (out of 5.00)

Scenodary School Certificate

Kazem Ali High School, Chattogram, Bangladesh

2015

GPA: 5.00 (out of 5.00)

Reference

Zahedi Parvez Bappi

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Additional Information

Honors & Awards

- Heckathon Winner - Apr 2019, Smart India Hackathon
- Techhunt 2nd Runners-up Dec 2019
IIT Hackathon , Kharagpur IIT Kolkata

Certification

- SQL (Intermediate) Certificate by Hackerrank on 2023
- SQL (Basic) Certificate by Hackerrank on 2023

Languages

- English (Fluent)
- Hindi (Fluent)
- Bangla (Proficient)