

Md. Magfur Alam

**Address:**

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Date of Birth:

1st January 1995.

Objective

Experienced Front-End Developer with over 5 years of expertise building modern, scalable, and high-performance web applications. Specialized in React.js, Next.js, and building responsive user interfaces. Proven ability to lead frontend development teams, optimize performance, and deliver reliable, maintainable solutions for large-scale platforms. Strong knowledge of JavaScript, RESTful APIs, and GIS-based applications.

Technical Skills

- **Languages & Frameworks:** JavaScript (ES6+), React.js, Next.js, Redux, Redux Toolkit, Node.js, Express.js.
- **Web Development:** HTML5, CSS3, Sass, Responsive Design, TailwindCSS, Material-UI
- **Databases:** PostgreSQL, MongoDB, PostGIS.
- **API & Data Handling:** RESTful APIs, Axios
- **GIS & Mapping (Domain Expertise):** QGIS, ArcGIS, GeoServer, OpenLayers.
- **Version Control & Tools:** Git, GitHub, Bitbucket, Docker,
- **Other:** Git, RESTful APIs, Agile/Scrum methodologies

Professional Experience

- **Tiller, Dhaka, Bangladesh.**
Sr. Software Engineer
December'2020 – Present
 - Led front-end development for national-level dashboards enhancing decision-making for urban planning and sanitation projects.
 - Built responsive, performant interfaces using React.js, Redux Toolkit, TypeScript, and D3.js.
 - Integrated complex GIS data with OpenLayers and spatial databases (PostGIS), enabling interactive map visualizations.
 - Collaborated with DevOps teams on deployment automation using Docker and Bitbucket Pipelines.
 - Conducted regular code reviews, mentored junior developers, and enforced coding standards across the team.
 - Implemented scalable UI components and optimized rendering performance for high-traffic applications.
- **Peoples IT Solutions, Dhaka, Bangladesh.**
Jr. Software Engineer
July'2019- November'2020
 - Developed secure, high-performance web tools for government agencies.
 - Created reusable front-end components using React.js and improved data handling with RESTful APIs.

- Contributed to full-stack development with Node.js, ensuring seamless backend-frontend integration.

Projects

➤ National Sanitation Dashboard:

- **Role:** Developer.
- **Technologies:** React.js, D3.js, Openlayers, Spring Boot, PostgreSQL, PostGIS, Geoserver.
- **Description:** Developed the National Sanitation Dashboard for tracking faecal sludge and solid waste management across municipalities, aligning with SDG indicators for sanitation.
- **Impact:** Improved data accuracy for over 329 municipalities and supported government planning.
- **Live Link:** <http://sanboard.gov.bd/>

➤ Amader City (Smart City Management System):

- **Role:** Developer.
- **Technologies:** React.js, D3.js, Openlayers, Spring Boot, PostgreSQL, PostGIS, Geoserver.
- **Description:** Developed a smart city management platform providing government officials with a centralized tool to monitor urban issues in Dhaka City.

➤ Planning Information System

- **Role:** Developer.
- **Technologies:** React.js, Openlayers, Node.js, Express.js, PostgreSQL, PostGIS, Geoserver.
- **Description:** Integrated climate risk information into public investment planning for the Bangladesh Planning Commission, supporting climate resilience in infrastructure projects.
- **Live Link (Demo):** <http://plismap.plancomm.gov.bd/>

➤ PixiAI - AI-Powered Image & Video Platform

- **Role:** Developer, Lead Front-End
- **Technologies:** Next.js, TypeScript, Zustand, PostgreSQL, Spring Boot.
- **Description:** Developed an AI-based platform enabling users to generate images and videos from text prompts using advanced machine learning models. Led the front-end team and implemented a scalable, responsive architecture to ensure a seamless user experience.
- **Live Link:** <https://pixiai.net/>

➤ PureSounds - AI-Powered Music Generation & Streaming Platform

- **Role:** Developer, Lead Front-End
- **Technologies:** Next.js, TypeScript, Zustand, PostgreSQL, Spring Boot.
- **Description:** Developed a music streaming platform powered by AI, enabling users to generate and listen to original music tracks through advanced machine learning models. Led the front-end team and designed a scalable, responsive UI for a seamless audio experience.
- **Live Link:** <https://puresounds.cloud/>

Academic Qualifications

- **Bachelor of Science in Computer Science and Engineering | Bangabandhu Sheikh Mujibur Rahman Science & Technology University, Gopalganj – 8100 | Session 2013-2014.**
 - **Thesis:** Cyber Security Knowledge Prediction Using Multiple Linear Regression (BSMRSTU and Gopalganj Case Study)
- **Higher Secondary School Certificate | Govt. Sundarban Adarsha College, Khulna| Session 2010-2011**
- **Secondary School Certificate | Saint Joseph's High School, Khulna| Session 2008-2010**

Certifications & Training

- **iOS Mobile Application Development Training- ICT Division, Govt. of Bangladesh (200 Hours)**
- **NASA Space Apps Challenge 2016 Finalist**
- **EATL Prothom Alo Apps Contest 2016 Participant**

Publications

- **Title:** ADASEML: Hospitalization Period Prediction of COVID-19 Patients Using ADASYN and Stacking Based Ensemble Learning-Springer
Doi: https://doi.org/10.1007/978-3-031-28183-9_1
- **Title:** Crop-RecFIS: Machine Learning Classifiers for Crop Recommendation and Feature Importance Scores Calculation-IEEE
Doi: [10.1109/ICCCNT56998.2023.10307833](https://doi.org/10.1109/ICCCNT56998.2023.10307833)

Leadership & Volunteer Activities

- Mentor for junior front-end developers at Tiller
- Former Campus Ambassador - Engineering Student's Association of Bangladesh (ESAB)
- Volunteer - Bangladesh Science Society, NASA Space Apps Bangladesh

References

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