

Abdullah Al Mamun

Software Engineer

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SUMMARY

Experienced Software Engineer with almost 5 years of expertise in JavaScript ecosystems and DevOps. Proven track record in delivering impactful web and desktop solutions, collaborating seamlessly with cross-functional teams. Adept at optimizing performance, accessibility, and usability for the best user experience.

SKILLS

Programming Languages: JavaScript, TypeScript, PHP, Python.

Front End: HTML, CSS, TailwindCSS, Bootstrap, SASS, JavaScript, React.js, Next.js, Electron.js

Backend: Node.js, Express.js, Flask, Laravel, Socket.io, RabbitMQ.

Databases: MongoDB, MySQL, Redis, Elasticsearch.

Architecture and Design Patterns: Microservice, Layered Architecture, Monorepo, REST API, JSON.

Version Controlling & Others: Git, Github, Bitbucket, Trello, Jira.

Cloud: AWS (S3, EC2, ECS, ECR, SNS, SQS, SES, AmazonMQ, CloudWatch, Load-Balancing), Digital Ocean.

DevOps: Docker, GitHub Action, CI/CD, Nginx, Load-Balancing, PM2, Application Clustering.

Others: Bioinformatics, Computational Biology, Machine Learning, Deep Learning

PROFESSIONAL EXPERIENCE

Research Assistant (Part-time), Group of BiophotomatiX Jan 2023 – present | Tangail, Bangladesh

- Preprocess and analyze biological datasets for bioinformatics and computational biology projects.
- Design and optimize machine learning and deep learning models for bioinformatics challenges.
- Build and maintain scalable bioinformatics tools and computational pipelines.
- Design and execute experiments to evaluate machine learning models in biological contexts.

Software Specialist, SSL Wireless 📄 May 2023 – Jun 2024 | Dhaka, Bangladesh

- Worked on a Fintech team to develop highly scalable microservices and a micro-frontend application to manage concurrent traffic.
- Optimized code and improved business logic execution complexity.
- Conducted research and implemented a micro-frontend architecture.
- Researched and implemented a monorepo architecture.

Software Engineer, NexusLab 📄 Feb 2022 – Apr 2023 | Dhaka, Bangladesh

- Implemented, built, deployed, and developed highly available microservices from scratch.
- Scaled microservices to handle millions of concurrent traffic.
- Designed database schema and use case diagrams.
- Designed APIs and built microservices to sync data from various platforms.
- Built inter-service communication using RabbitMQ.
- Designed additional APIs with Socket.io for real-time data transfer.

Software Engineer, Colour Bangla 📄 Jan 2020 – Jan 2022 | Dhaka, Bangladesh

- Implemented, built, and deployed backend and frontend applications.
- Developed REST API services using Express.js.
- Collaborated with the team on R&D and new feature additions.

PROJECTS

Grapmart 📄

- Implemented food and daily needed groceries website for residents.
- There is an admin portal to manage products, orders, and users.
- Front-end developed with React.js, TailwindCSS.
- Backend APIs developed with PHP, Laravel, and MySQL database.

XTOLET

- **XTOLET** is a property search application that helps users find nearby rental properties.
- It features a user portal where individuals can either browse rental listings or post their own properties for rent.
- The frontend is developed using TypeScript, React.js, and TailwindCSS, while the backend is currently being built with Laravel, Express.js, and MySQL.

Group of BiophotomatiX

- Group of BiophotomatiX is a research collaboration website.
- There is an admin portal designed to manage researchers' publications and integrate AI models for testing real-world scenarios.
- Front-end developed with React.js, TailwindCSS, and backend APIs developed with PHP, Laravel, and MySQL.

Children Journey

- Children Journey is a childcare website.
- There is an admin portal designed for parents to manage users and classes, helping them oversee their child's development through every stage of their growth.
- Front-end developed with React.js, TailwindCSS, and backend APIs developed with PHP, Laravel, and MySQL.

Cardiovascular diseases detection

- **API service** is designed to detect **Cardiovascular diseases** through advanced machine-learning techniques.
- Implements machine learning algorithms such as Random Forest Classifier, Decision tree classifier, and Support Vector Machine(SVM).
- The service is developed using **Flask** to create a robust **REST API** for easy integration with other applications.

Storex API

- STOREXAPI is a free online REST API that you can use whenever you need Pseudo-real data for your store management website, mobile application or desktop application without running any server-side code.
- It's incredible for teaching purposes, sample codes, tests and etc.

React Country Select Component

- React country select component is an open-source frontend NPM package for React.js.
- It saves time and is useful for front-end developers to search and select countries worldwide.

EDUCATION

University of Saskatchewan,
M.Sc. in Biomedical Engineering

Sep 2024 – present | Saskatoon, Canada

Daffodil International University,
B.Sc. in Software Engineering
CGPA: 3.17 out of 4.00

Jan 2018 – Dec 2022 | Dhaka, Bangladesh