MUHAMMAD SAIFUL ISLAM

BIOGEOCHEMIST & FULL-STACK WEB DEVELOPER

📞 +49(0)17622341910 ✉ muhammad.si.8891@gmail.com in Linkdin

🌐 www.muhammadsaifulislam.com 📍 Vechta, Germany

PROFILE

I am a web developer who transitioned from an academic research background, fueled by a deep interest in the transformative power of technology. Proficient in HTML, CSS, JavaScript, and various frontend and backend frameworks and libraries, I am passionate about crafting impactful projects that bridge social and scientific significance. Eager to continuously enhance my web development skills, I am committed to making meaningful contributions to the field.

SKILLS (WEB DEV)

Front-end

HTML, CSS, JS, TS, React, Angular, React native, Expo, Android Studio, PWA, Bootstrap, Angular Material, Tailwind, Recharts

Back-end

Node.js, Express, RESTful API, MongoDB, Mongoose, PostgreSQL, AWS lambda, Google Firebase, CORS

Other Tools

Git, GitHub, Trello, TDD, BDD, Postman, JSDoc, TypeDoc, Swagger, Figma, Heroku, Netlify, Vercel, Puppeteer, Jest, Cucumber, Morgan, Axios

EDUCATION

Full-Stack Web Development
CareerFoundry
July 2023 - Jan 2024

PHD Biogeochemistry
Forschungszentrum Juelich
Apr 2019 - Present

Google Data Analytics
Professional (Three courses)
Coursera
Sep 2021 - Dec 2021

Masters in Ecology
University of Bremen
Oct 2023- Apr 2018

Bachelor of Science in Zoology
Jahangirnagar University
Mar 2007- Nov 2012

LANGUAGES

- English (Fluent)
- German (Intermediate)

WEB DEVELOPMENT PROJECTS

myFlix

Personal project, CareerFoundry, Germany   Oct 2023, Dec 2023-Jan 2024

- Developed a RESTful API using Node.js, Express, MongoDB, and Mongoose, ensuring secure user authentication and efficient CRUD operations on 'movies' and 'users.'
- Tested the API endpoints with Postman, wrote clean and concise documentation, deployed the API with Heroku.
- Created two single-page, responsive front-end applications, one using React (following MVC design patter) and the other Angular (with Angular Material). Users can create accounts, browse movies, manage profiles, and save their favorites.

Angular client demo - Angular GitHub repo - React client demo - React GitHub repo - API GitHub repo

MeetBit Event app

Personal project, CareerFoundry, Germany Nov 2023

- Created a React-based progressive web app (PWA) showcasing events from a Google Calendar, featuring responsiveness, cross-platform functionality, offline accessibility, and the ability to add to home screens.
- Utilized a test-driven development (TDD) approach with Jest for unit and integration tests, Cucumber for acceptance tests, and Puppeteer for end-to-end testing.
- Integrated AWS Lambda serverless functions for user authentication and authorization via OAuth.
- Employed agile methodologies with a Kanban board for project management.

Meet App Demo. GitHub Repo   **VISIT ALL PROJECTS..**

WORK EXPERIENCE

Professional devlopment   APR 2023 - PRESENT

I took a career break to complete my PhD thesis, work on scientific publications and pursue technical skills as a web developer.

Forschungszentrum Jülich, Germany   APR 2019 - APR 2023
Graduate Research Assistant

- Designing and implementing field and laboratory studies to investigate soil processes related to carbon sequestration and greenhouse gas emission mitigation in different ecosystems (5 projects).
- Collecting, managing, and analyzing large datasets related to soil properties and environmental parameters.
- Collaborating with interdisciplinary teams to integrate soil science with other environmental sciences, such as ecology and hydrology.
- Writing scientific manuscripts for publication in peer-reviewed journals and presenting research findings at conferences and meetings.
- Mentoring and supervising graduate and undergraduate students involved in research projects.   **SEE PUBLICATIONS**..

Forschungszentrum Jülich, Daimler AG, Grove personal service, McDonalds, Weser Kurier , Germany
Student research assistant and other part-time roles   JAN 2014 - MAR 2019

- During my master's studies, I worked part-time as a student research assistant, where I expanded my scientific knowledge, honed analytical and problem-solving skills in a professional environment, and improved teamwork efficiency.
- Additionally, I gained communication and collaboration skills through part-time roles in various companies, which involved production tasks and customer interaction.

Flood Hazard Research Centre (FHRC), Bangladesh   JUN-JULY 2012
Sustainable development Liaison

- Conducting focus group discussions with 15 community organizations on climate change adaptation.
- Assisting master's students in collecting data for their thesis on sustainable development initiatives in rural community groups in Bangladesh.