



# MUHAMMAD SAIFUL ISLAM

BIOGEOCHEMIST & FULL-STACK WEB DEVELOPER

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## PROFILE

I'm a web developer with a background in academic research, skilled in project development & implementation, data analysis, student supervision, and publication. My proficiency spans HTML, CSS, JavaScript, and a variety of frontend and backend frameworks and libraries. I am driven by a passion for crafting impactful projects that blend social and scientific significance and am enthusiastic about advancing my web development skills further.

## 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 pattern) 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 development

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.