

MORISON FREDERICK

MERN Stack Developer

0834398388 | frederickmorison@gmail.com |  LinkedIn |  GitHub

Cork,Ireland | Stamp 1G Visa | No Visa Sponsorship Required

Profile Summary

Autodidactic MERN Stack Developer with a strong foundation in crafting efficient, scalable web solutions. Proficient in leading-edge technologies, delivering high-performance and user-centric web applications. Passionate about enhancing efficiency through clean, maintainable code, and continuously committed to professional growth and tackling new challenges in the tech industry.

Technical Skills

- **Languages:** JavaScript, TypeScript,Python
- **Front-end:** React.js, HTML, Redux, Tailwind CSS, Bootstrap, Embedded JavaScript (EJS), CSS
- **Backend:** Node.js, Express.js, REST APIs, MVC, Mongoose
- **Infrastructure:** Data Structures, npm, Nginx, PM2, Load Balancing, CI/CD pipelines
- **Databases:** MongoDB, MySQL
- **Integration:** Paypal, Multer, Socket.IO, Firebase, JWT (JSON Web Token), Nodemailer,
- **Deployment:** AWS EC2, GitHub Actions, Route 53, Render
- **Developer Tools:** Visual Studio Code, GitHub, Postman, Figma
- **Computational Skills:** Data Structures and Algorithms
- **Soft Skills:** Self-learning, Problem-solving, Time management, Adaptability, Organizational skills

Projects

Portfolio Website

[Live Link](#) |  [GitHub](#)

- Designed and developed a personal **Portfolio Website** showcasing projects, skills, and experience using modern web development tools and best practices.
- Built a responsive frontend with **React** and styled it using **Tailwind CSS** for a clean, professional layout across all devices.
- Enhanced user engagement by integrating smooth scrolling, section highlighting, and animations via **Framer Motion**.
- Structured key sections including About, Services, Skills, Projects, and Contact for easy navigation by recruiters and clients.
- Implemented dynamic real-time weather updates on the homepage using the **Meteiran SDK**, displaying localized data.
- Hosted the website on **Render** with continuous deployment through GitHub for seamless updates and reliable global access.

- Optimized SEO and performance via metadata configuration and responsive image handling to boost discoverability and speed.
- Achieved excellent Google Lighthouse scores: **Performance 99**, **Accessibility 96**, **Best Practices 100**, **SEO 100**.
- Key performance metrics: **First Contentful Paint 0.7s**, **Largest Contentful Paint 0.7s**, **Total Blocking Time 0ms**, **Cumulative Layout Shift 0.001**, **Speed Index 0.7s**.

Tiki-Real Time chat app

[Live Link](#) | [GitHub](#)

- Developed **Tiki**, a real-time chat application connecting software developers and project owners, featuring instant messaging using **Socket.IO**, secure authentication with **JWT**, and real-time collaboration features.
- Built the backend with **Node.js**, **Express.js**, and **MongoDB** using **Mongoose**, following the **MVC pattern** to maintain a clean and scalable architecture.
- Designed a responsive frontend using **React** and **Tailwind CSS**, managed global state using **Redux**, and implemented secure login with **JWT**.
- Handled image uploads and management using **Multer**, storing files on the server and maintaining references in **MongoDB** for efficient access and delivery.
- Secured API routes using access and refresh tokens, and implemented **Axios interceptors** for seamless token management in frontend requests.
- Deployed the full-stack application on **Render** with GitHub integration for automated deployments, and added an admin panel to manage users and projects.

Bookish - E-commerce Website

[Live Link](#) | [GitHub](#)

- Developed **Bookish**, an online bookstore with core **E-commerce functionalities**.
- Designed responsive UIs using **Embedded Javascript (EJS)** and **Bootstrap**, ensuring cross-browser compatibility and optimized UX.
- Built server-side logic using **Node.js**, **Express.js**, and **MongoDB** with **Mongoose** for database management, and created **RESTful APIs** for CRUD operations, user management, and order processing.
- Implemented secure registration and authentication using **Nodemailer** for email OTP verification.
- Developed advanced product filtering, cart, wishlist, and seamless purchasing with Cash on Delivery (COD) or online payments via **Paypal**.
- Integrated a **wallet** system to manage funds from returns or cancellations.
- Built an **Admin console** to manage products, stock, view statistics, download reports, and more.
- Deployed on **AWS** for high availability and scalability, and configured **Nginx** as a **reverse proxy** and **load balancer**.

Experience

MERN Stack Developer (Personal & Freelance Projects)

Self-Employed

[2023 – Present]

- Developed a real-time Chat App using **React**, **Node.js**, **MongoDB**, and **Socket.IO** with **JWT** authentication.
- Created a to-do application using **MySQL**, **Axios** for API communication, and **Tailwind CSS** for responsive UI design.

- Built an OLX clone using **Firestore** for authentication and storage, along with **React.js** for the frontend.
- Integrated environment variables to securely manage API keys and sensitive data.
- Deployed full-stack applications on **Render.com**, establishing smooth CI/CD workflows.
- Optimized database queries and improved server-side logic for enhanced performance.

Maths Teacher

Holyfaith English School, Maharashtra, India

[06/2016 – 05/2023]

- Planned and delivered engaging mathematics lessons, boosting student's understanding and exam results.
- Developed customized learning materials to meet diverse student needs and learning styles.
- Maintained a positive classroom environment and managed academic progress for up to 30 students.

Maths Teacher

Jyotirgamaya English School, Maharashtra, India

[12/2011 – 04/2016]

- Taught core mathematics concepts through interactive lesson plans and real-life examples.
- Encouraged students' problem-solving skills and independent thinking.
- Managed classroom discipline and supported academic growth for groups of up to 30 students.

Work Authorization

Eligible to work in Ireland (No sponsorship required) Stamp 1G