Trina Sikdar

Frontend Engineer

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linkedin.com/in/trina-sikdar | github.com/itsmetrina | itsmetrina.github.io/Trina-Sikdar

Summary

Frontend Engineer with 4+ years of experience building fast, scalable, and user-focused web applications using **React, TypeScript, JavaScript, Angular**, and modern UI architectures. Strong experience with **dashboard development, i18n, API integrations, maps, and real-time data interfaces**. Skilled in debugging, performance optimization, and collaborating closely with backend/data teams. Known for ownership, delivering reliable features in fast-paced environments, and solving complex integration problems.

Skills

Frontend: React.js, Angular (10+), TypeScript, JavaScript (ES6+), Zustand, Redux, Context API, TailwindCSS, HTML5, CSS3, Responsive UI, Accessibility, i18n, Leaflet Maps

Backend & APIs: REST APIs, Node.js, Python, FastAPI (basic), Microservices

Data & Cloud: PostgreSQL, Azure

Tools & Testing: Git, GitHub, GitHub Actions (CI/CD), Jest, Postman, Docker (basic)

UI/Design: Figma (basic), Wireframing, Component Architecture

Work Experience

Frontend Engineer | Wipro | Jul 2021 – Present | Bengaluru, IN

- Built and maintained **React & Angular SPAs** with reusable components and clean TypeScript architectures.
- Delivered **end-to-end features** from design, implementation, testing to production, improving sprint velocity.
- Improved UI performance by **25%** through lazy loading, memoization, API restructuring, and RxJS optimization.
- Integrated complex **REST APIs and microservices** for dashboards, automation workflows, and live data streams.
- Implemented **i18n (inter-localization)**, accessibility improvements, responsive design, and **Leaflet map integrations**.
- Debugged recurring UI and API issues using logs, state transitions, and service-layer analysis.
- Built **Node.js & Python microservices** for data decoding, automation, validation, and device workflows.
- Automated onboarding of **6,000+ IoT devices**, reducing manual validation effort by **80%** and improving reliability.
- Implemented **LoRa codec decoders** in Node.js to transform raw payloads into structured telemetry.
- Diagnosed and fixed **device-to-cloud pipeline** issues: payload formats, metadata mapping, API ingestion, dashboards.
- Collaborated with Product, Backend, QA, and DB teams to deliver stable releases under tight deadlines.
- Refactored legacy modules, enhanced CI/CD workflows, and delivered React POCs that influenced business decisions.
- Awarded **Victory League Award (2024)** for exceptional ownership and delivery excellence.

Projects

MiniSpotify (React, Tailwind, Zustand, Spotify Web API) | [GitHub](#) | [Live Demo](#)

- Developed a **Spotify-inspired music dashboard** with secure **OAuth 2.0 + PKCE authentication**, real-time playlist browsing, and playback preview.
- Implemented **Zustand** for lightweight and performant global **state management**.
- Designed responsive UI with **TailwindCSS** and seamless routing with **React Router**.

Weather App (React, OpenWeather API) | [GitHub](#) | [Live Demo](#)

- Built a **responsive weather dashboard** with real-time forecast and location-based search.
- Integrated OpenWeather API and deployed via **GitHub Pages** for public access.

Portfolio Website (React, Vite, Framer Motion) | [GitHub](#) | [Live Demo](#)

- Designed and developed a modern personal portfolio with animations and responsive UI.

Education

Swami Vivekananda Institute of Modern Studies	Jun 2018 – July 2021
Bachelor of Computer Applications, 8.87	Barrackpore, Kolkata, WB

Certifications

- Microsoft Certified: Azure Data Fundamentals (DP-900)