Trina Sikdar
Frontend Engineer

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Summary

Frontend Engineer with **4+ years of experience** building scalable, performant, and user-centric web applications using **React, Angular, TypeScript, Node.js**, and Python microservices. Strong in **REST API integrations, UI performance optimization, debugging, microservice maintenance**, and delivering production-ready features in fast-paced environments. Known for problem-solving, ownership, and cross-functional collaboration.

Skills

Frontend: React.js, Angular (10+), TypeScript, JavaScript (ES6+), Redux, Zustand, RxJS, TailwindCSS, HTML5, CSS3
Backend & APIs: Node.js, Python, FastAPI (basic), REST APIs, Microservices
Cloud & Database: PostgreSQL, Azure
Tools & Testing: Git, GitHub, GitHub Actions (CI/CD), Jest, Postman, Docker (basic)

Work Experience

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

- Built and maintained **large-scale SPAs** using React, Angular, and TypeScript, with clean, reusable components and consistent UI architecture.
- Delivered full **end-to-end features**, improving sprint delivery speed.
- Improved UI performance by **30%** via lazy loading, memoization, API restructuring, RxJS optimization, and state-management tuning.
- Integrated **complex REST APIs and microservices** for real-time dashboards, automation workflows, and device data streaming.
- Implemented **internationalization (i18n)**, responsive layouts, accessibility improvements, and interactive **map integrations (Leaflet)**.
- Diagnosed and resolved recurring UI defects by analysing logs, state changes, API behaviour, and cross-service communication patterns.
- Built **Python and Node.js microservices** for data decoding, validation, automation, and backend processing pipelines.
- Automated onboarding of **6,000+ IoT devices**, reducing manual validation effort by **80%** and improving device health accuracy.
- Implemented **LoRa codec decoders** in Node.js to transform raw payloads into structured, platform-ready telemetry data.
- Troubleshot **device-to-cloud** issues end-to-end: payload formats, metadata mapping, API ingestion, dashboards, and microservice failures.
- Led cross-functional collaboration with Product, Design, QA, Backend, and DB teams to deliver stable releases under strict timelines.
- Refactored legacy modules, improved CI/CD workflows, reduced deployment friction, and delivered high-impact POCs (including a React SPA) supporting business decisions; awarded **Victory League Award (2024)** for 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.

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)