

SUBHRANIL PATRA

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EDUCATION

Techno India Institute of Technology		
Bachelor of Computer Applications	CGPA - 7.31	Sep 2021 - Jun 2024
Bankura Christian Collegiate School		
Higher Secondary Education (WBCHSE)		Jan 2020 - Mar 2021

EXPERIENCE

Contributor – Webpack (Benchmarking Utilities & CI Integration)

Stack: JavaScript, Node.js, Webpack, Benchmark.js, GitHub Actions

- Worked on performance benchmarking for Webpack by contributing utility scripts and CI integration.
- Developed scripts/runBenchmarkCI.js to detect and execute benchmark cases from test/benchmarkCases, outputting structured performance data in JSON format.
- Authored test/helpers/runBenchmark.js using the Webpack Node API and Benchmark.js to collect metrics such as mean execution time and sample size.
- Initiated benchmark.yml GitHub Actions workflow to automate CI-based performance tracking (work in progress).

Open Source Contributor — Leaflet

Stack: TypeScript, Leaflet, Git, Open Source

- Identified missing typings for tileload and tileunload events in Leaflet's TileLayer class, which were present in the official Leaflet documentation but absent in the TypeScript types.
- Resolved TypeScript type incompatibilities related to event inheritance (on method in TileLayer clashing with GridLayer and Evented) by aligning function signatures correctly.
- Added the TileEvent interface with appropriate tile and coords properties based on Leaflet's internal usage.
- Edited index.d.ts in types/leaflet, tested changes using tsc --noEmit, and followed DefinitelyTyped's contribution guidelines

PROJECTS

Calendly-Clone

A full-stack appointment scheduling application for creating and managing user events. Stack: Next.js, React, TypeScript, Drizzle ORM, Vercel , Clerk . App link - myschedule-black.vercel.app

Food Recipe Website (Academic Project)

Built an interactive UI for exploring and filtering recipes with ingredients and categories.
Stack: HTML, CSS, JS

Memeverse

A meme-sharing SPA with category filters and dynamic image rendering.
Stack: HTML, CSS, JS (React), UI design , API integration

Droply

A file storage and sharing SPA inspired by Dropbox, with upload and management features. Stack: Next.js, React, TypeScript, Tailwind CSS, Drizzle ORM, Vercel , Clerk

SKILLS

- Frameworks & Libraries:** Bootstrap , Webpack , React.js , Node.js , Leaflet.js, Next js, TailWind CSS, Drizzle
- Spoken Languages:** Bengali, English, Hindi
- Tools & Technologies:** Postman API, Git & GitHub , VS Code , API Integration , Clerk , Vercel, Neon (PostgreSQL)
- Programming Language:** HTML, CSS, JavaScript, MY SQL, TypeScript