

# 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

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## 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

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## 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](https://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

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## 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, MySQL, TypeScript