

Grenish Rai

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Education

SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

Bachelor of Computer Applications

First place, Web Building Competition, SMIT Tech Adhristha.

Majitar, Sikkim

2022 – 2025

Experience

FREELANCE

Software Developer

Kolkata, India

December 2024 – Present

- Designed and shipped production web applications covering frontend interfaces, REST APIs, authentication, and PostgreSQL-backed services.
- Published TNT, a from-scratch version-control command-line tool, to npm with zero runtime dependencies.
- Built native Linux utilities in Rust, including Mouse Me (120 downloads, approximately 20 weekly active users) and a clipboard manager.
- Shipped Detoxify, a Manifest V3 browser extension, to the Chrome Web Store and Firefox Add-ons; reached 70 unique Chrome users.

Projects

Mouse Me, Linux Desktop Application

- Developed a Rust binary with a Slint graphical interface and command-line interface to list, install, and apply cursor themes across Hyprland, GTK, Qt, and X11.
- Reached 120 downloads, approximately 20 weekly active users, and 27 GitHub stars.

Clipboard Manager, Linux Terminal Utility

- Built a Rust clipboard daemon and ratatui interface for Hyprland with history, pinning, content-type detection, and automatic masking of API keys and JWTs.
- Reached 22 GitHub stars as a Windows-style clipboard history tool for Linux, with Wayland and X11 support.

TNT, Version-Control Command-Line Tool

- Implemented a version-control system in TypeScript on Bun, including content-addressed blobs, SHA commits, branching, merge, ignore files, an interactive shell, and Git migration.
- Published @grenishrai/tnt on npm with zero runtime dependencies.

Detoxify, Browser Extension

- Built a Manifest V3 YouTube focus extension that hides Shorts and Playables, keyword-blocks home cards, and applies live presets on Chrome and Firefox from a shared codebase.
- Reached 70 unique Chrome users and listed the extension on the Chrome Web Store and Firefox Add-ons.

Technical Skills

Languages: TypeScript, JavaScript, Rust, Python, SQL, Dart, HTML, CSS

Web and APIs: React, Next.js, Node.js, Bun, Express, Hono, REST APIs, JWT, OAuth

Data: PostgreSQL, Prisma

Tools: Git, Linux, Docker, npm, Cloudflare, Vercel