

PROJECTS

# REIN

## Multi-Model AI Coding Orchestration

Architect / Developer · 2026

*REIN (Routed Execution with Intelligent Networking) is a desktop app for multi-model AI coding orchestration: it lets a developer assign distinct roles to different AI models and run them as a coordinated team against a single codebase, routing each task to the model best suited for it.*

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### 1. Overview

Most AI coding tools bind you to one model at a time. REIN treats models as a team: you assign each one a role, and REIN routes work to the model best suited for each task while keeping them coordinated against a single codebase. It is a native desktop application — forked from T3 Code — with a chat and diff-driven workflow, git integration, and a built-in GSD (Get Shit Done) methodology as a first-class feature.

### 2. Key Features

- **Role-Based Model Routing** Assign distinct roles to different AI models and route each task to the right one, so a coordinated team works the codebase instead of a single generalist.
- **Multi-Provider Backends** Drives Codex (JSON-RPC app-server) and Claude Code (claude-agent-sdk) sessions through a unified ProviderManager.
- **Diff & Git Workflow** A diff viewer and git integration UI keep every model-made change reviewable before it lands.
- **Event-Sourced Orchestration** A Node sidecar runs an event-sourcing / orchestration engine over a WebSocket channel, so multi-model runs are coordinated and replayable.

- **GSD as a First-Class Workflow** The Get Shit Done methodology is integrated into the product, not bolted on — structured execution is part of the tool.

### 3. Architecture

REIN layers a Tauri (Rust) shell — window management, native menus, tray, sidecar process management and auto-update — over a React + Vite frontend (chat, thread management, diff viewer, provider picker) that talks via WebSocket to a bundled Node.js sidecar. The sidecar runs a WebSocket server on port 3773, the ProviderManager for Codex and Claude Code, the event-sourcing orchestration engine, and git operations, with the provider backends (codex app-server over stdio, claude-agent-sdk sessions) behind it.

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#### TECH STACK

Tauri · Rust · React · Vite · Node.js · WebSocket · Codex · claude-agent-sdk

#### LINKS

<https://github.com/JonathanDumitru/rein-code>

<https://www.jonathandumitru.com/projects/rein>