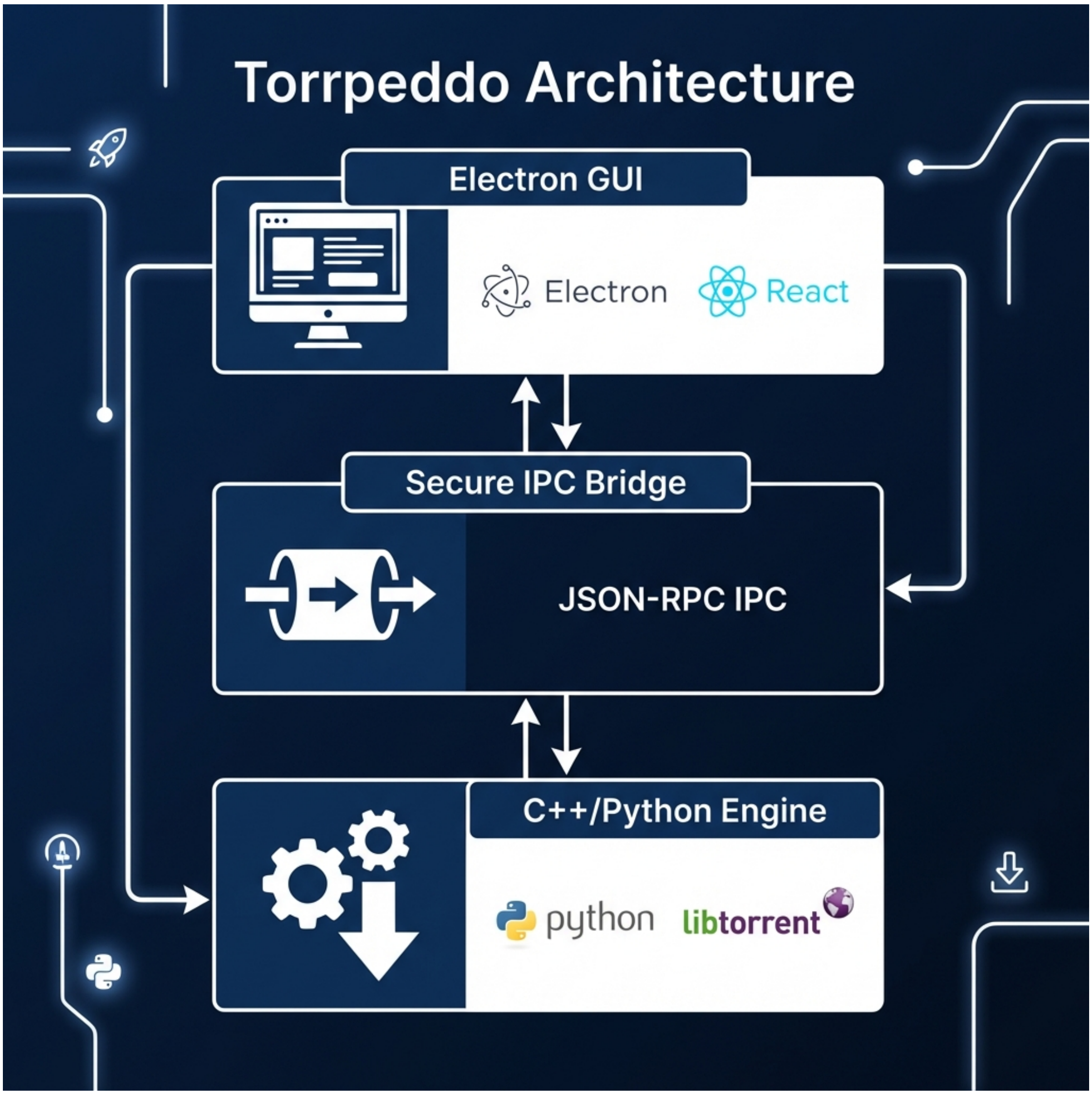
TORRPEDDO PROJECT BOOK



Executive Summary

Architectural Deep Dive

Torrpeddo follows a decoupled architectural pattern, separating the presentation layer from the core logic and network engine. This is achieved through three primary layers:

1. Frontend: Electron Framework

Benefits for Torrp
and web compon
Cross-Platform C
across Linux, Wi
OS features like

2. The Bridge: IPC (Inter-Process Communication)

Implementation:
protocol over std
Python child proc
into JSON string
logic and returns

Why this approach? - Decoupling: The engine can be updated, debugged, or even replaced without touching the UI. - Security: The backend runs as a separate process, providing a layer of isolation. - Performance: High-speed communication with minimal overhead compared to HTTP-based local servers.

3. Backend Engine: Python & libtorrent

Multi-threaded P
internal thread p
parallel processi
Python `Torrent
additions, ensuri
from the DHT or

Development Process & Methodology