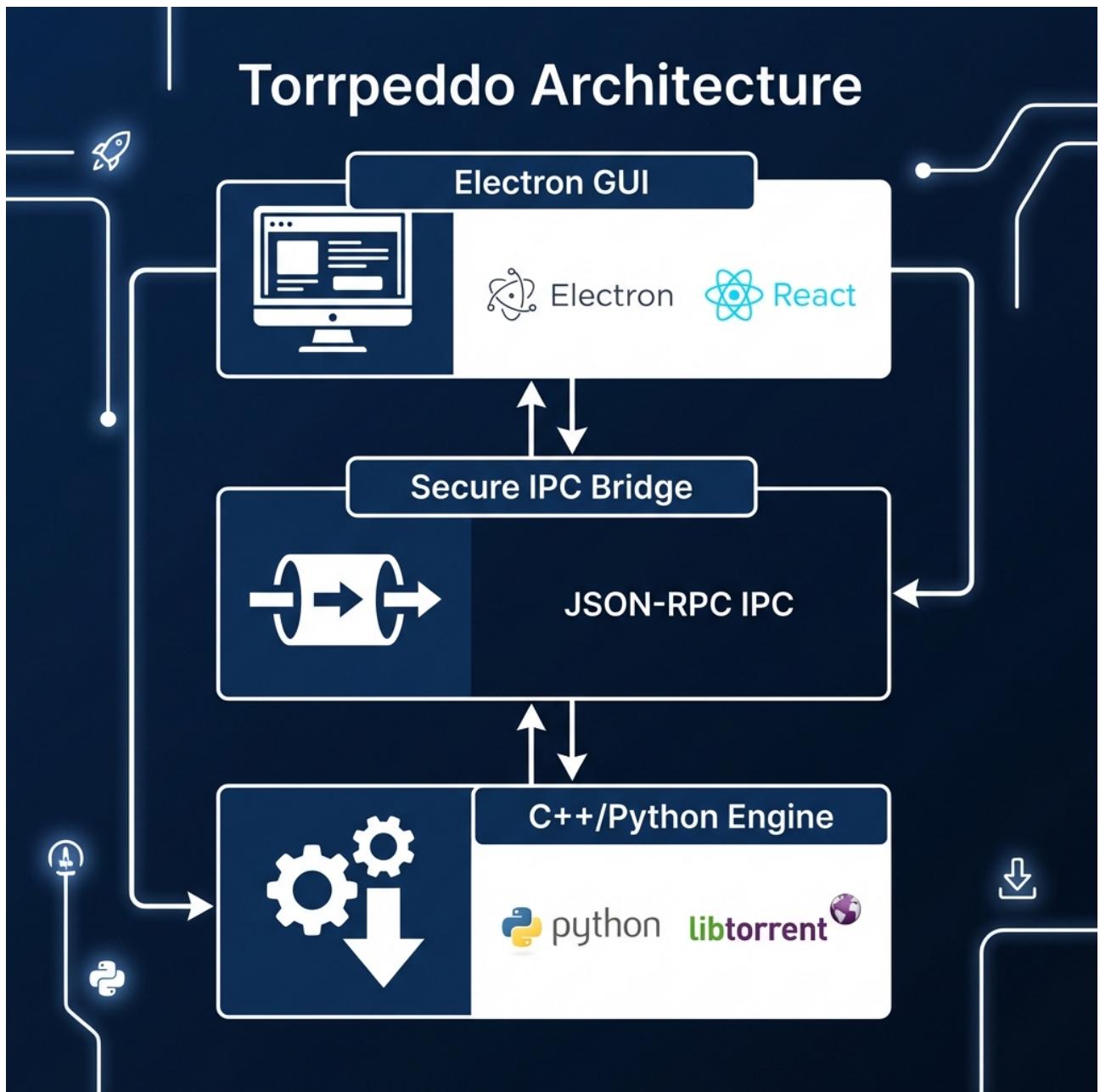


TORRPEDDO PROJECT BOOK



Executive Summary

Torrpeddo is an industrial-grade, premium torrent client designed for the modern desktop. Built primarily with Python and the Electron framework, Torrpeddo leverages the powerful `libtorrent` suite to offer a seamless, high-performance experience that bridges the gap

between complex network protocols and professional user interfaces.

Architectural Deep Dive

Torpedo 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

**What is Electron?

Benefits for Torpedo:

- **Visuals:**

to create a

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

**What is IPC?

Implementation: Secure JSON-RPC

Communication

****Why this approach?****

- **Decoupling**: The core logic is not directly touching the network layer.

3. Backend Engine: Python & libtorrent

****The Core Engine****

****Multi-threaded Performance:****

- **Engine**: The core engine is highly optimized for I/O, networking, and torrent fragmentation.

Development Process & Methodology

The Torpedo project followed a "Platform-First" methodology:

1. **Language**: Python was chosen for its readability and ease of integration.

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