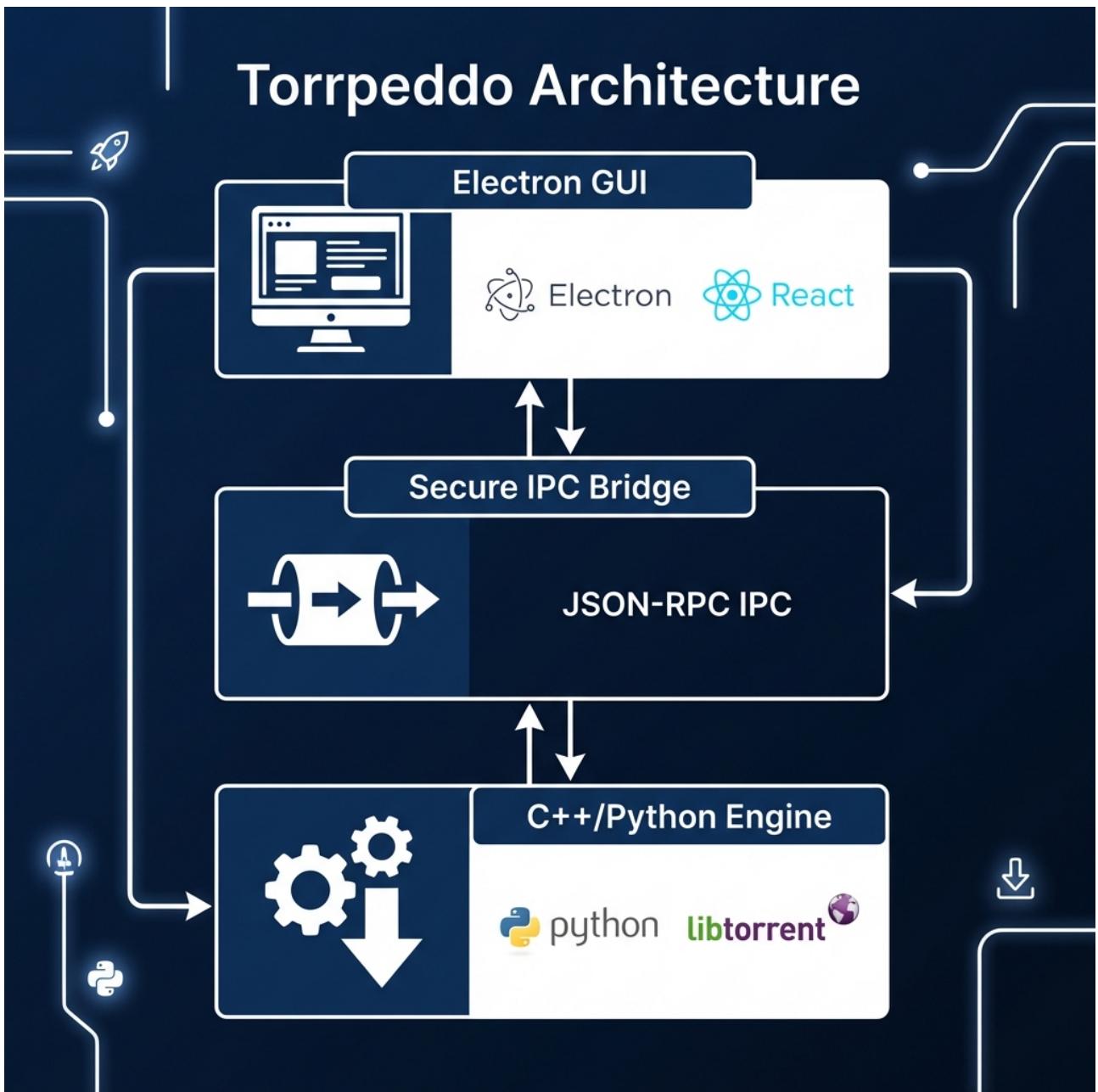


# TORRPEDDO PROJECT BOOK



## 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.

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## 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:

- Visual Editor

create a "Virtual Machine"

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

What is IPC?

Implementation: Secure JSON-RPC

Communication

Why this approach?

- Decoupling the UI.

### **3. Backend Engine: Python & libtorrent**

The Core:

Multi-threaded Performance:

- Engine
- network performance
- fragments

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## **Development Process & Methodology**

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

1. Language integration

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