# Second Brain - PostgreSQL + pgvector Architecture

## v2.4.1 - Simplified & Focused

- Simplified Architecture
- ⚡ High Performance
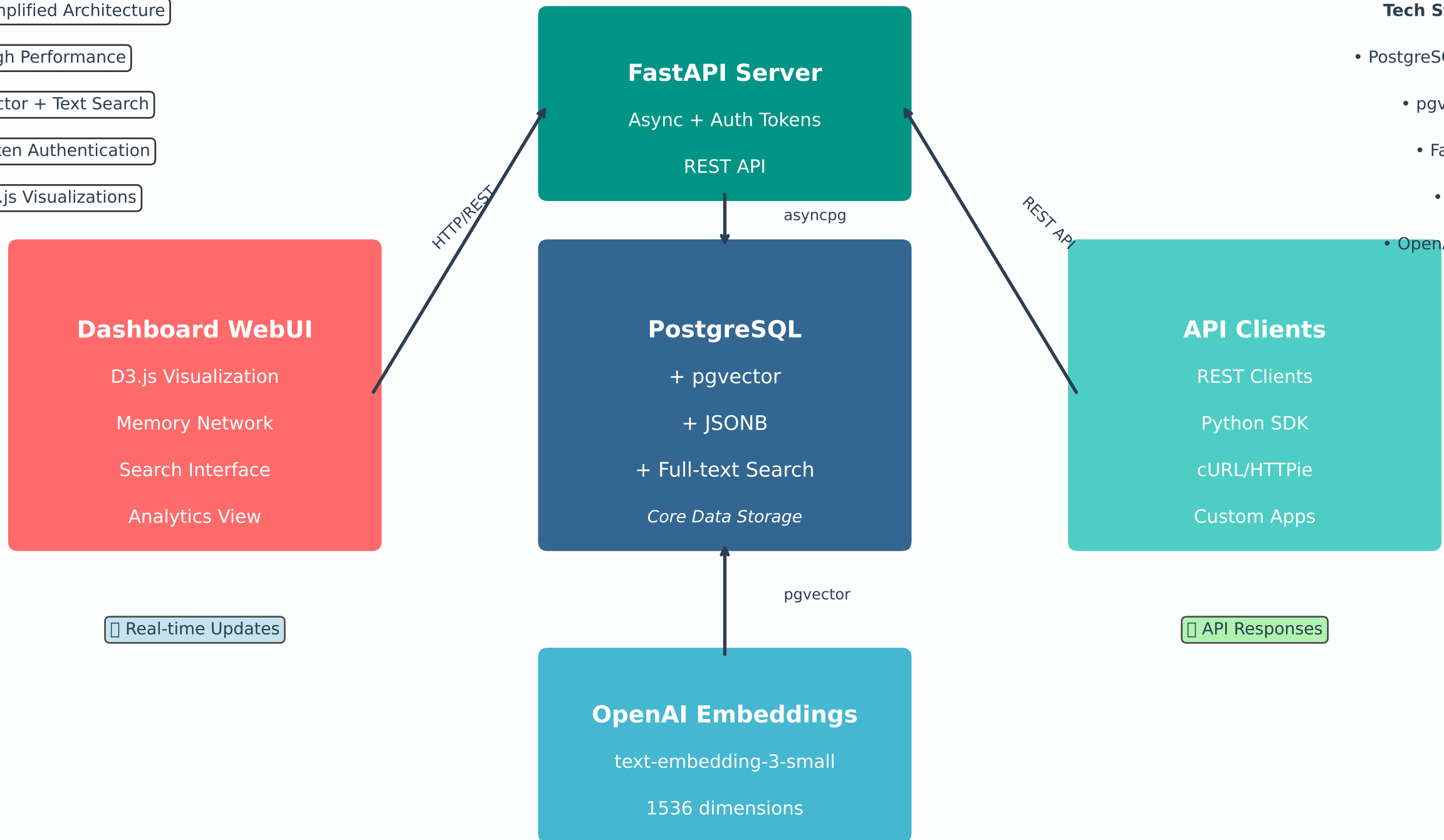- Vector + Text Search
- Token Authentication
- D3.js Visualizations

**Tech Stack:**
- PostgreSQL 16
- pgvector
- FastAPI
- D3.js
- OpenAI API

**FastAPI Server**

Async + Auth Tokens

REST API

HTTP/REST

asyncpg

REST API

**Dashboard WebUI**

D3.js Visualization

Memory Network

Search Interface

Analytics View

**PostgreSQL**

+ pgvector

+ JSONB

+ Full-text Search

*Core Data Storage*

**API Clients**

REST Clients

Python SDK

cURL/HTTPie

Custom Apps

Real-time Updates

pgvector

API Responses

**OpenAI Embeddings**

text-embedding-3-small

1536 dimensions

*All components dockerized • Production ready • Horizontally scalable*