create.
command.
cadcompany.

pfn
products for nobody

project scope

i wanted to...
- control cad with my voice

- hassle free voice control

- feel cool

01

pfn

products for nobody

project scope

i wanted to learn...

- speech recognition

- LLM API calls

- fusion360 API

02

pfn
products for nobody

project scope

i wanted to

-

-

- f

03

pfn

products for nobody

project scope (really)
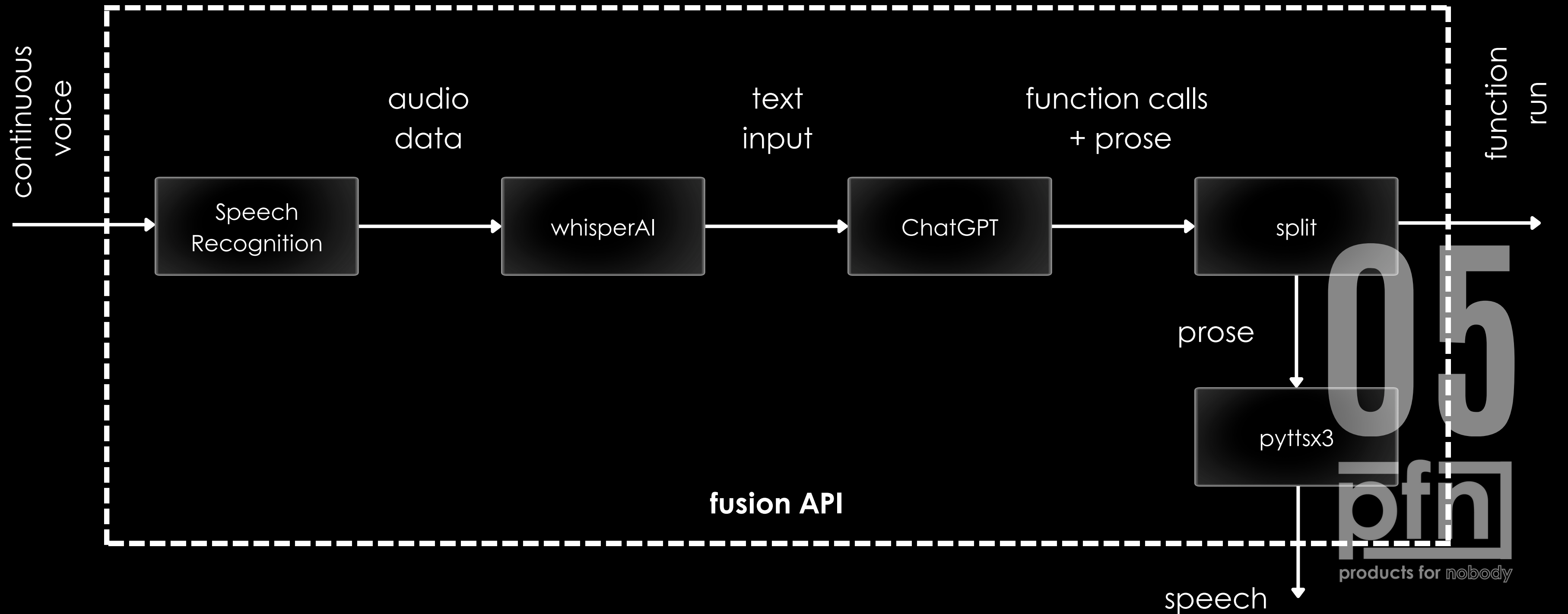

hands-free engineering

Uninterrupted design iteration

04

pfn

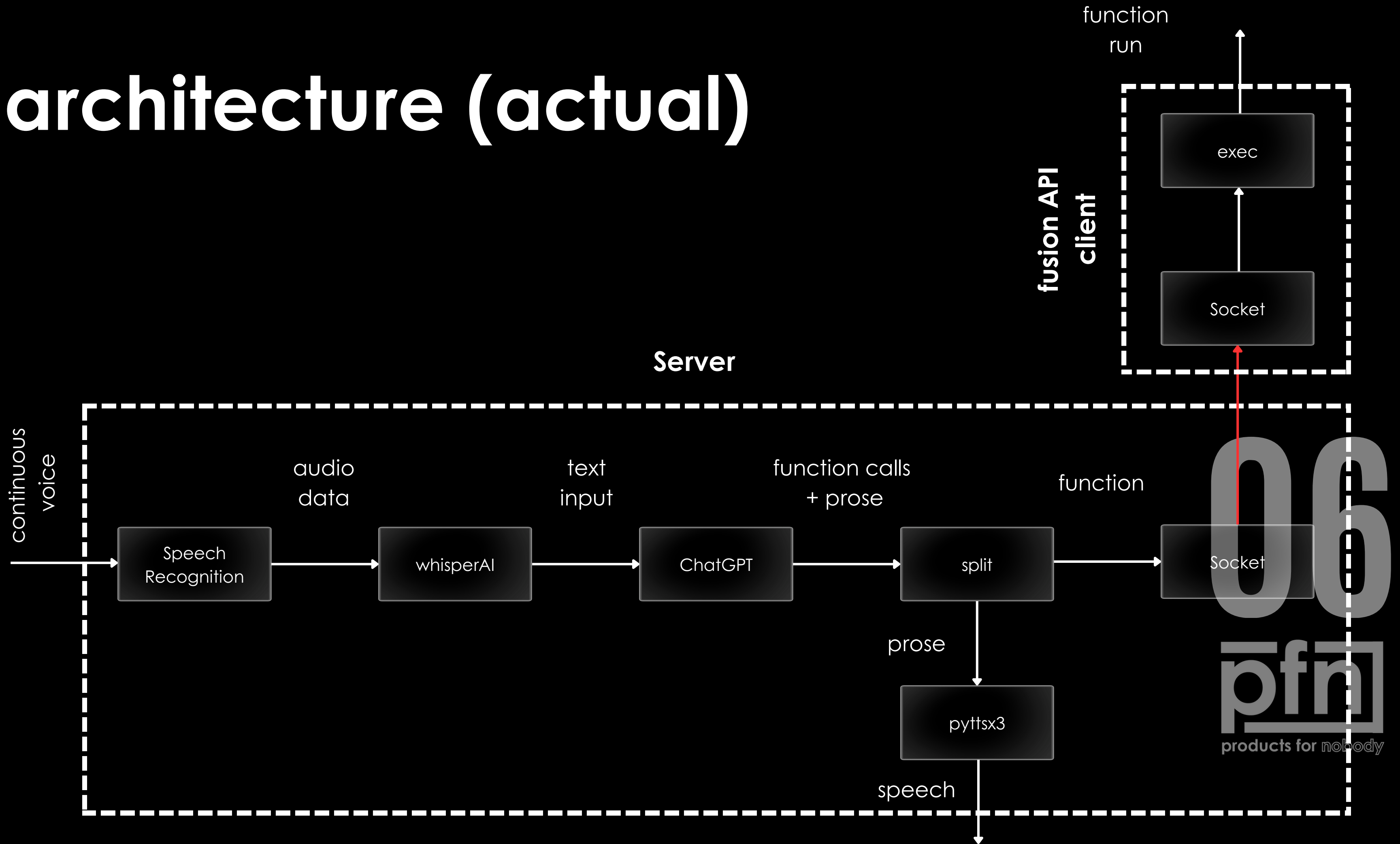products for nobody

cad|
company.

voice activated
LLM tool use
automated design

architecture

architecture (actual)

function
run

**fusion API
client**

exec

Socket

Server

continuous
voice

audio
data

text
input

function calls
+ prose

function

Speech
Recognition → whisperAI → ChatGPT → split → Socket

prose

pyttsx3

speech

06

pfn

products for nobody

learning (intended and not)

- whisperAI   ->   difficulty with wake words
- ChatGPT   ->   actually as expected
- fusion API   ->   surprisingly unstable
- sockets   ->   how did i even end up here?

07

pfn

products for nobody

thank you

i really need to sleep