

Build Your First REST API in Rust

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LIU Brooklyn

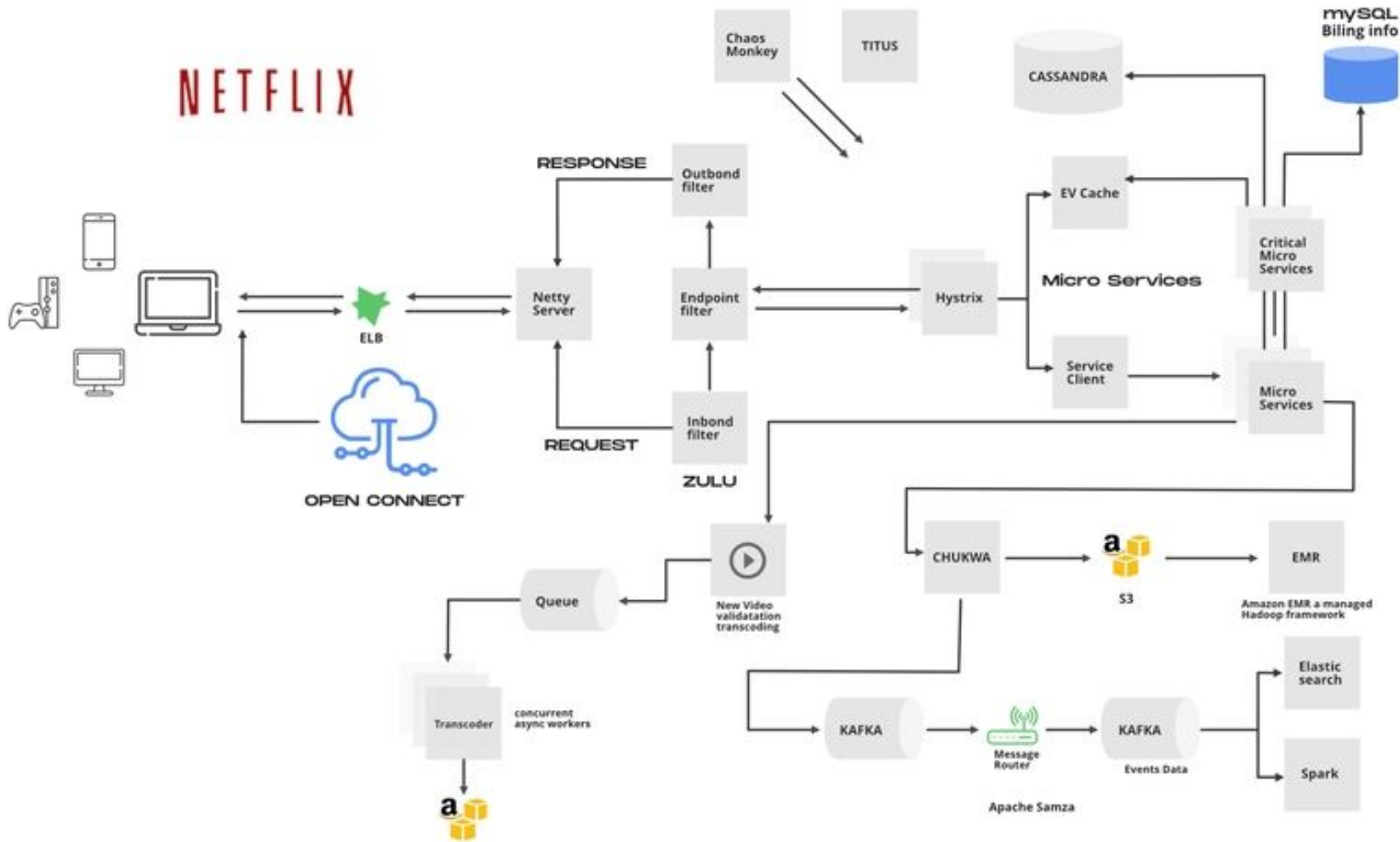
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Hey, I'm Tyler

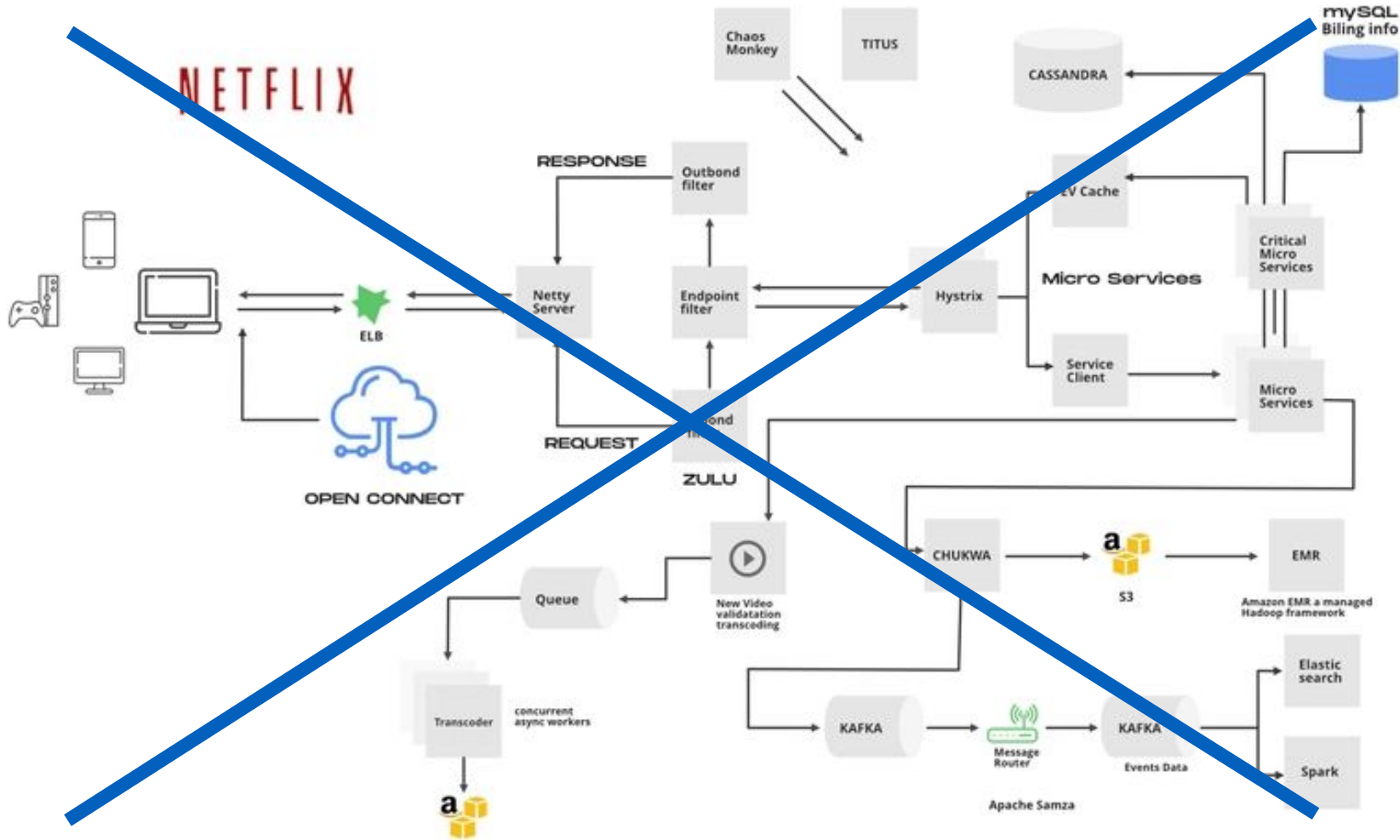
- I run From Scratch Code
- I build software systems from scratch
- I teach engineers how their code actually works



NETFLIX



NETFLIX



EVENT PROCESSING / AGG / Monitor

```
{  
  id: 1,  
  name: "User 1"  
}
```

Why do we want to build an API?

- **APIs let different systems talk to one another**
- **Most real software is just APIs + data**
- **Even a small API touches many core concepts**

Why do we want to build a REST API?

- Predictable way to interact with data over HTTP
- Common pattern for CRUD applications

```
GET /users
```

```
POST /users
```

```
GET /users/{id}
```

```
PUT /users/{id}
```

```
DELETE /users/{id}
```

```
GET /users
```

```
[
```

```
{ id: 1, name: "User 1" },
```

```
{ id: 2, name: "User 2" }
```

```
]
```

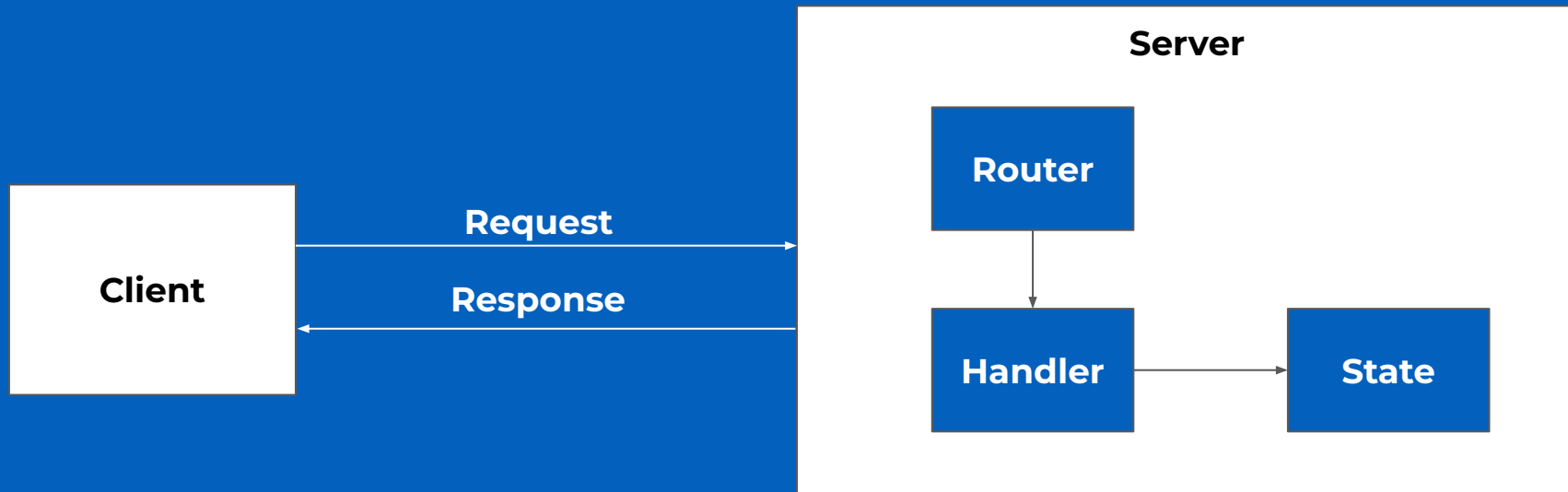
Why do we want to build a REST API using Rust?

- **Explicit types give us clean interfaces**
- **Memory safety eliminates whole classes of bugs**

How will we use our API?



Let's zoom in on the server



What does it look like?

<https://github.com/fromscratchcode/rust-api-workshop>



Stay in touch

- LinkedIn: <https://www.linkedin.com/in/tylergreen>
- From Scratch Code: <https://fromscratchcode.com/>