

### *Server-side*

#### **Routing Service**

Python server with  
NetworkX, GeoPandas,  
Shapely, etc.

REST API

Street  
Network  
[graph]

### *Preprocessing*

Open  
Street  
Map data

Spatial  
join

Traffic  
noise zones  
[polygons]

### *Client-side*

#### **Quiet Route Planner**

Interactive web map application  
that runs in web browser

