

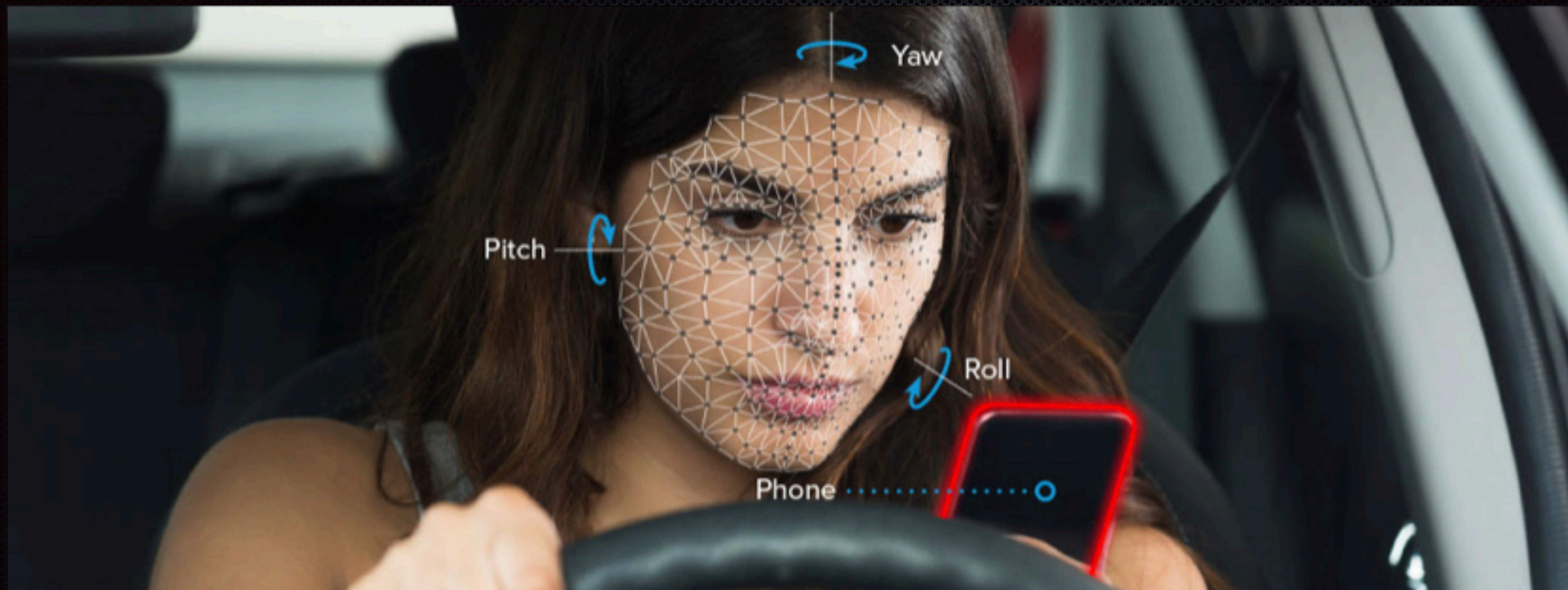


From Clean Code to Clean ML Models

A lightning talk on Nuclio

<https://www.synapcam.com>

Steven van der Merwe
Synap Labs

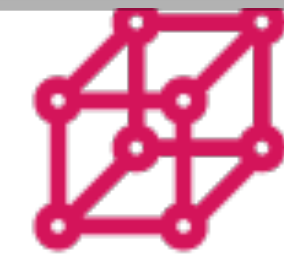


AI Driver Assistant

Face landmarking

SOLID Design Principles

Focus on clean code and clear design boundaries around our software assets



Single Responsibility Principle

A class should have only a single responsibility (i.e. only one potential change in the software's specification should be able to affect the specification of the class)



Open / Closed Principle

A software module (it can be a class or method) should be open for extension but closed for modification.



Liskov Substitution Principle

Objects in a program should be replaceable with instances of their subtypes without altering the correctness of that program.



Interface Segregation Principle

Clients should not be forced to depend upon the interfaces that they do not use.



Dependency Inversion Principle

Program to an interface, not to an implementation.

Do I really want a
python script for
each type of model?

Face recognition, object
detection, deblurring,
landmarks, pose estimation,
etc

Face
Recognition

main.py



Pose
estimation

pose1.py



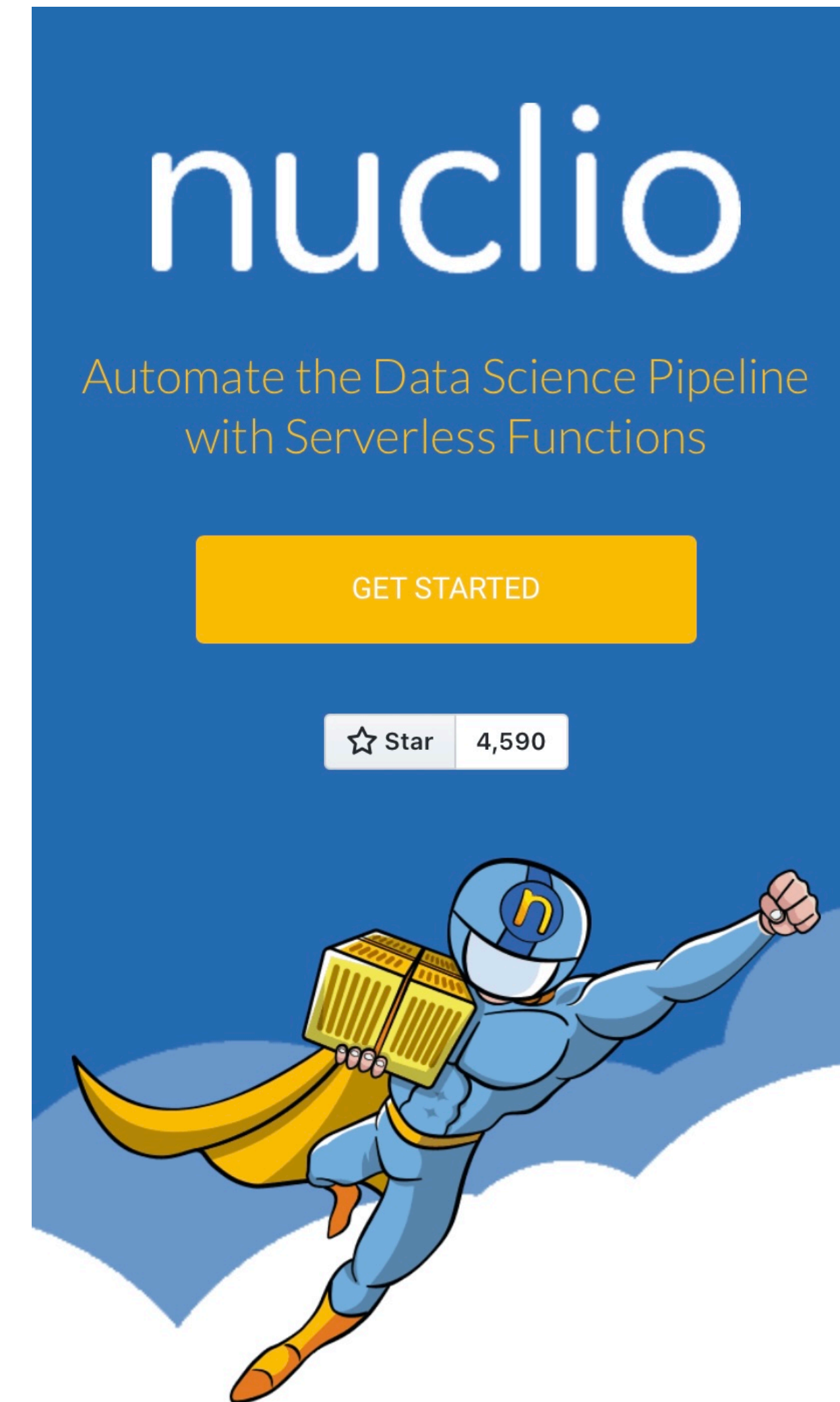
Object
Detection

object1.py



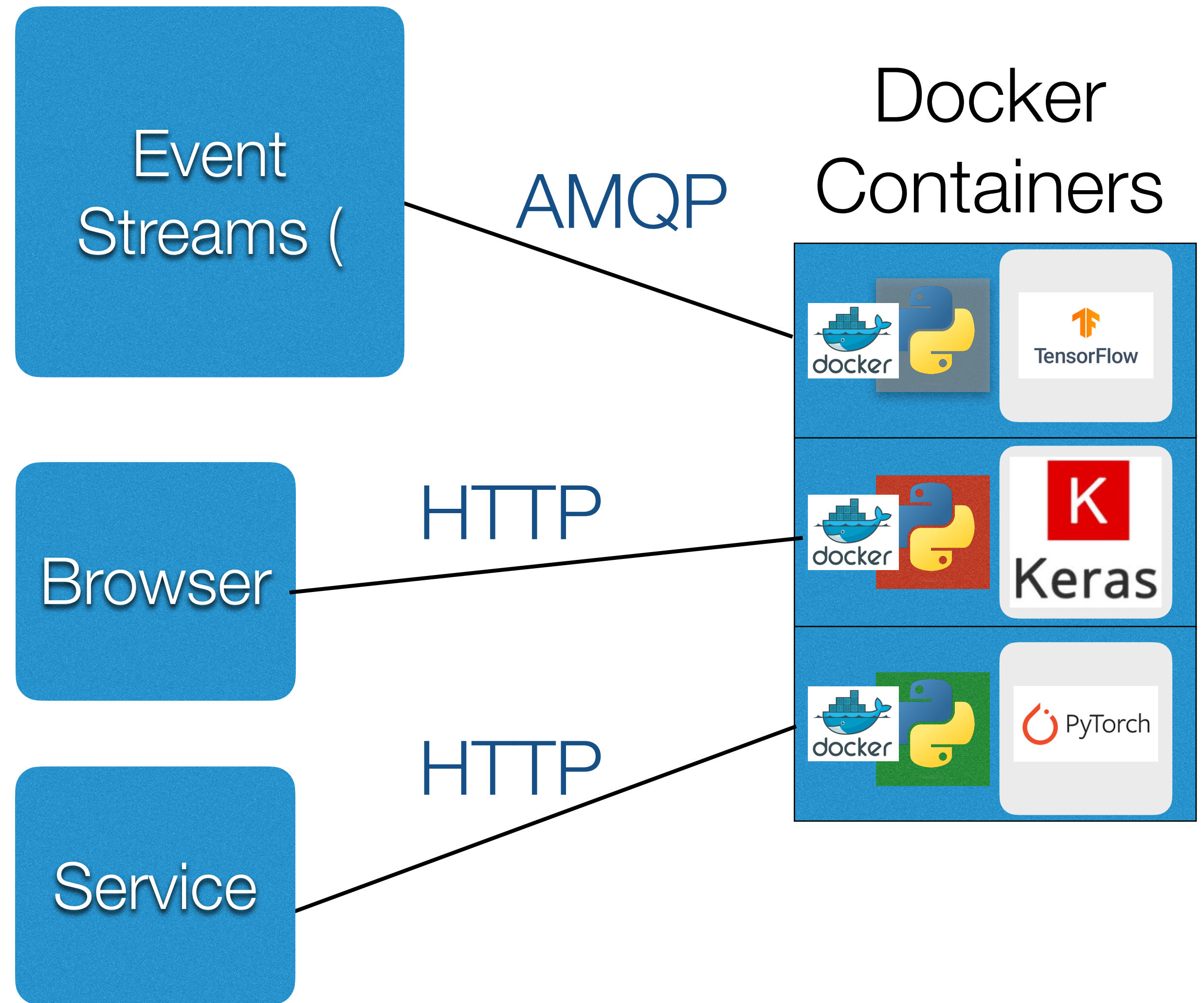
Use Nuclio!

<https://nuclio.io>



Clean ML Model Integration

Using http triggers wired into docker containers



Thank you!

We're also hiring!