

Flask Tutorial

Rafael Castro G. Silva

Department of Computer Science
University of Copenhagen

20/05/2025

Context:

Stream Processing: programs that compute (possibly) unbounded sequences of data (streams)

A common problem in the industry

Frameworks: Google Cloud Dataflow, Apache Flink, and Timely Dataflow

Why use frameworks?

- Highly Parallel

- Low latency (output as soon as possible)

- Incremental computing (re-uses previous computations)

Context:

Stream Processing: programs that compute (possibly) unbounded sequences of data (streams)

A common problem in the industry

Frameworks: Google Cloud Dataflow, Apache Flink, and Timely Dataflow

Why use frameworks?

- Highly Parallel

- Low latency (output as soon as possible)

- Incremental computing (re-uses previous computations)

Our long term goal:

Mechanically Verify Timely Dataflow algorithms

Let's write our web apps!