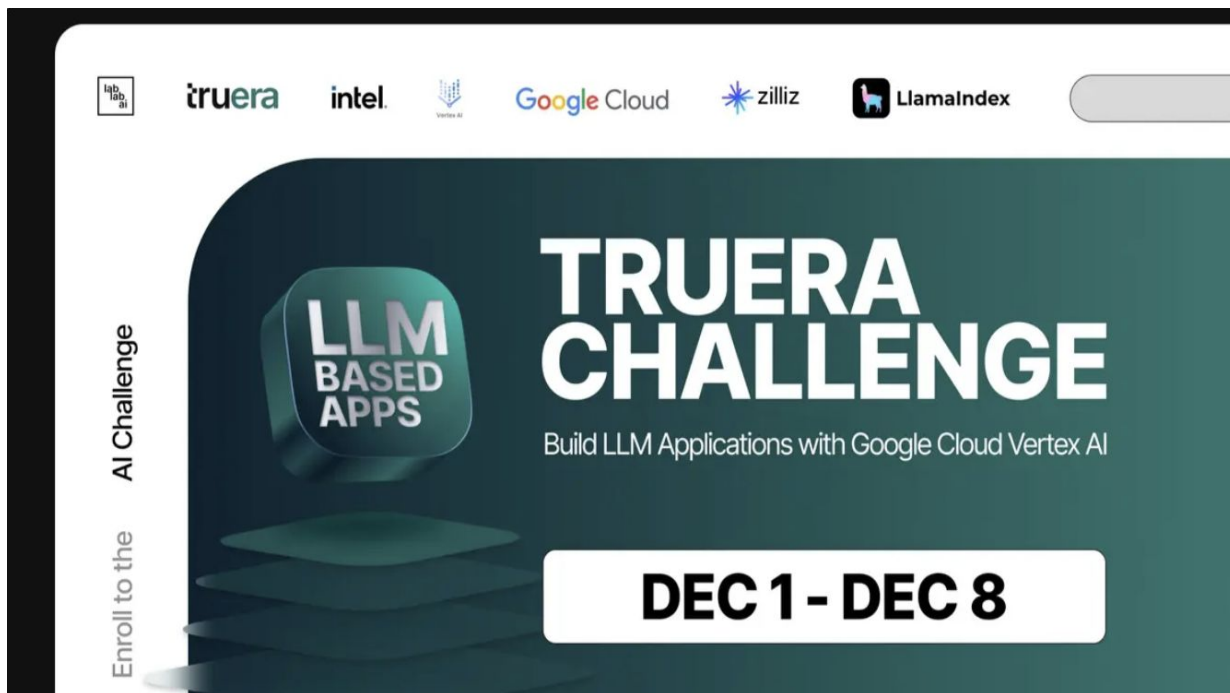




Meet Priya

A reimagined US Immigration
personal assistant

You May Remember Us From Earlier



The image shows a banner for the "TRUERA CHALLENGE". At the top, there are logos for "truera", "intel.", "Google Cloud", "zilliz", and "LlamaIndex". The main text reads "TRUERA CHALLENGE" in large white letters, with "LLM BASED APPS" in a smaller font to the left. Below the main title, it says "Build LLM Applications with Google Cloud Vertex AI". A white box at the bottom of the banner contains the dates "DEC 1 - DEC 8". On the left side, there is vertical text that says "Enroll to the AI Challenge".

Ask Priya



Ask Priya is a reimagined US Immigration personal assistant. It outperforms Ask Emma (current chatb...

AskPriya

OpenAI

TruLens

LlamaIndex

Meet The Team



Fadil Eledath

Systems Engineer
@DMC Inc



Bassim Eledath

ML Engineer
@Square



Phuc Nguyen

Applied Research DS
@Linkedin

The Problem & Target Audience

Annually there are:

- **22.1 million** international arrivals
- **1.08 million** international students
- **483,927** total registration for the H1B visa

The Problem & Target Audience

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But:

- **Not everyone** speaks English
- **Significant wait times** for response
- Personalized assistance like lawyers is **expensive**

Emma vs Priya

Need Help? **Ask Emma** >



X Formulaic chat, with users picking from a menu of choices. Answers are imprecise and unhelpful

Need Help? **Ask Priya**



✓ Much more of a 'dialogue' experience, with precise/accurate answers

Emma vs Priya

can I travel outside the US with an expired f1 visa?



I'm still researching this subject and don't have any further information right now. Check back at a later date for more information.

[Click here to Provide Feedback](#)

Demo Time

Ask Priya

About

USCIS News

Disclaimer

View on GitHub

Ask Priya

Hello there, what questions about US immigration can I help you with today?

Examples of questions I can answer:

What is USCIS?

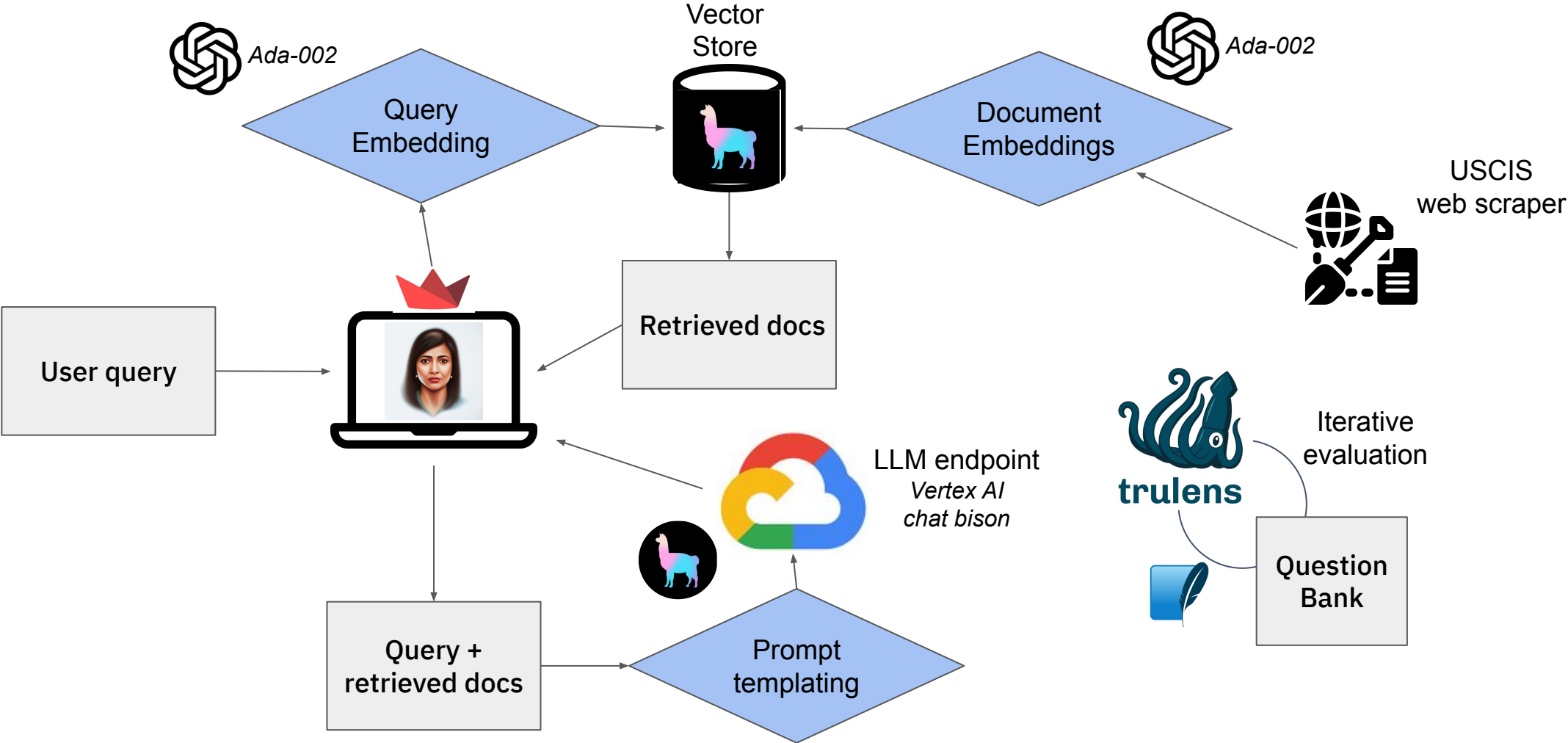
How do I check my case status?

What is a Green Card?

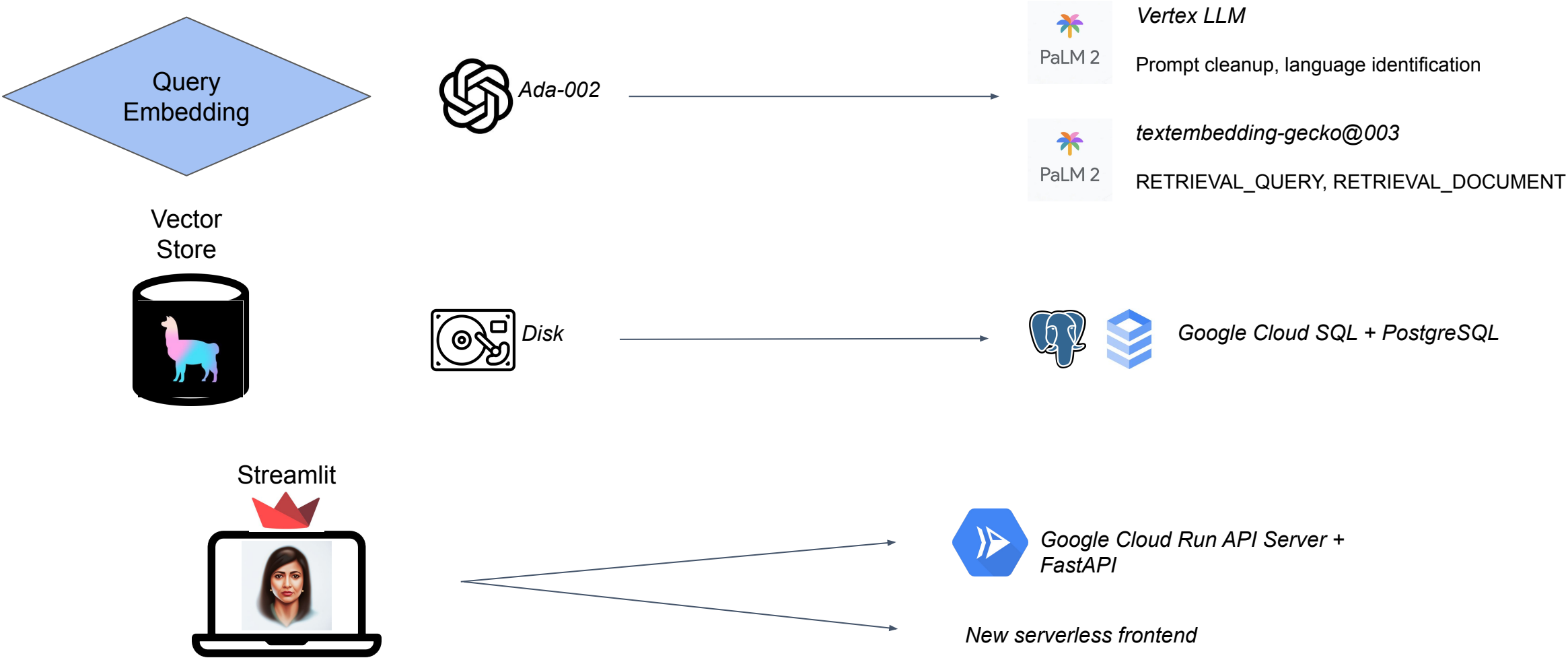
What would you like to ask about?

<https://askpriya2.streamlit.app/>

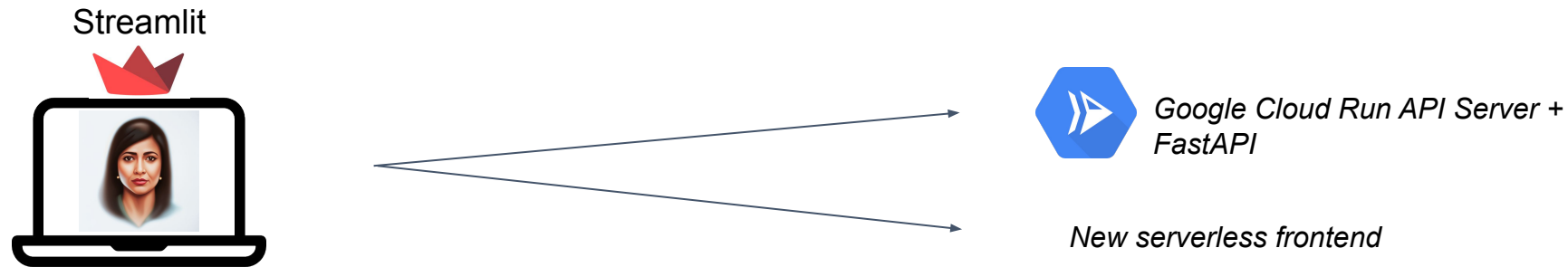
V1 Systems Design



V2 Systems Design Improvements



V2 Systems Design - More Improvements!



We've containerized a FastAPI package which we can deploy to Google Cloud Run.

This means that the backend and frontend both run lighter and the backend can scale to meet demand.

Our frontend can now be serverless!

Other Post hackathon improvements



+



LlamaIndex

Improved Performance

Automerging Query Engine [?]

Records	Average Latency (S...)	Total Cost (USD)	Total Tokens	Groundedness	Context Relevance
49	6.59	\$0.03	22.77k	0.82 ✓ high	0.66 ⚠ medium

Direct Query Engine [?]

Records	Average Latency (S...)	Total Cost (USD)	Total Tokens	Groundedness	Context Relevance
49	6.59	\$0.07	48.62k	0.75 ⚠ medium	0.6 ● low

Two reasons for improvement:

1. Query rewriting
2. Auto-merging retrieval

Query Rewriting - Why?

Retrieval can be very prompt sensitive!



What are the requirements for changing status from J1 visa to H1B visa?



You may not change your nonimmigrant status from J-1 to H-1B visa.

Sources: [Change My Nonimmigrant Status Category](#), [Conrad 30 Waiver Program](#)



Can I change from J1 to H1B visa?



Yes, it is possible to change from a J-1 visa to an H-1B visa. However, the process for changing from one visa status to another can be complex and requires proper filing of the necessary forms and meeting the eligibility criteria for the H-1B visa. It is recommended to consult with an immigration attorney or the United States Citizenship and Immigration Services (USCIS) for specific guidance and requirements for changing from a J-1 visa to an H-1B visa.

Sources: [H-1B Specialty Occupations and Fashion Models](#), [Options for Nonimmigrant Workers Following Termination of Employment](#)

Query Rewriting - The Solution

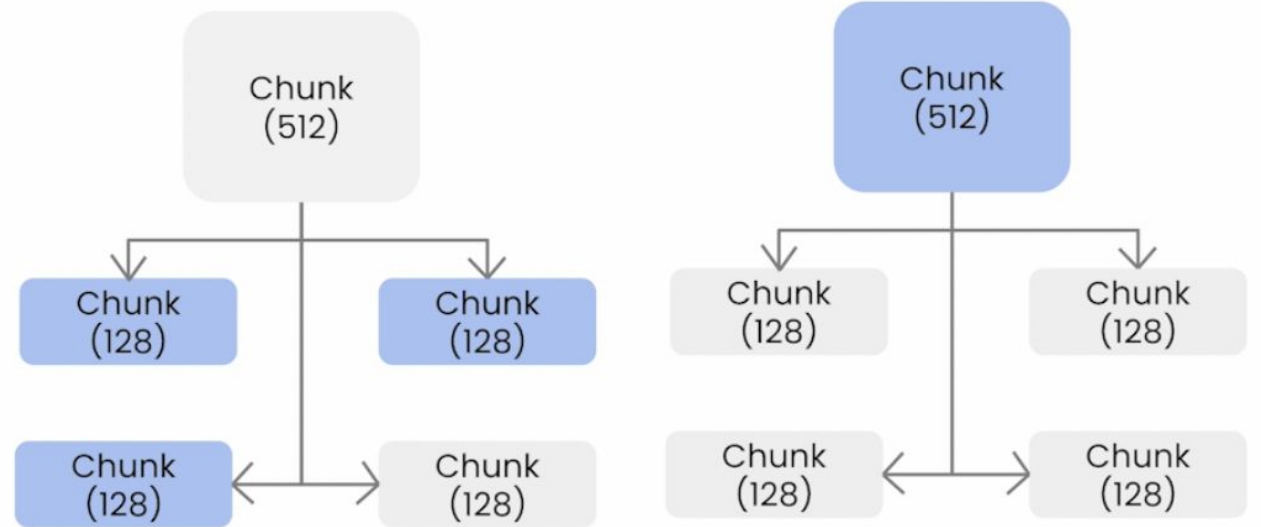
""Rewrite the following query to improve grammar, clarify terms, and add context for US immigration-related questions.

Format visa types properly (e.g., 'f1' to 'F-1 visa'), and specify if countries mentioned are outside the US for clear geographic context.

Maintain the original question's intent and ensure it is concise and clear for effective document retrieval:""

Auto-merging Retrieval

Information on the USCIS website is hierarchical!



3 Things we are actively working on

- Introduce feedback events into the app**
- Start using ground truth evaluations**
- Moving to a next.js frontend**



Thank You!