

Frontend



Next.JS

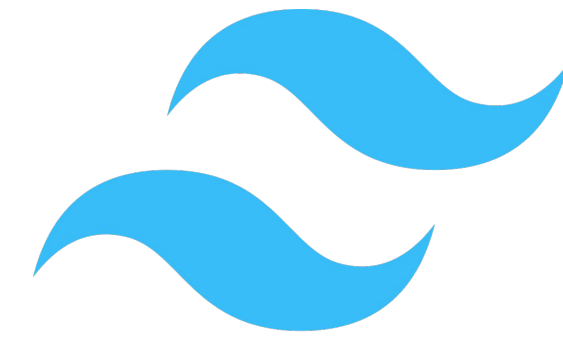


TypeScript

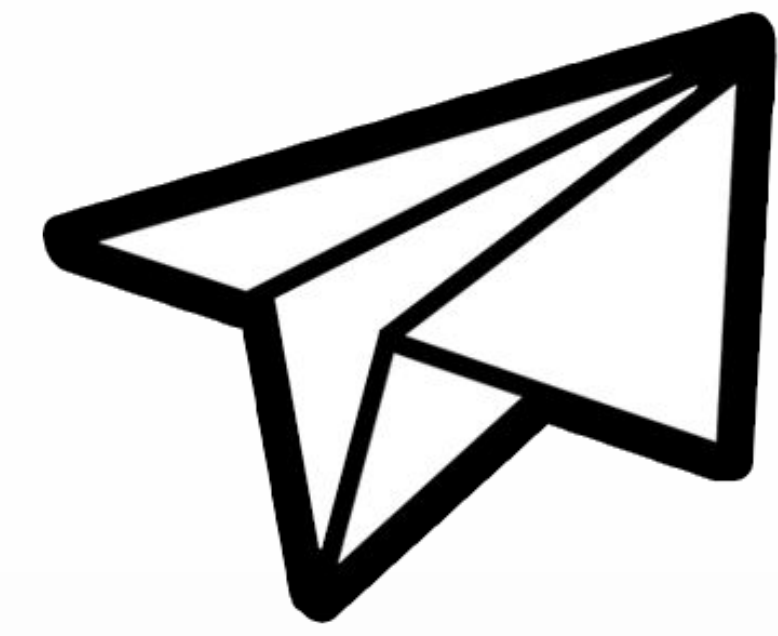


Clerk Auth

shadcn/ui

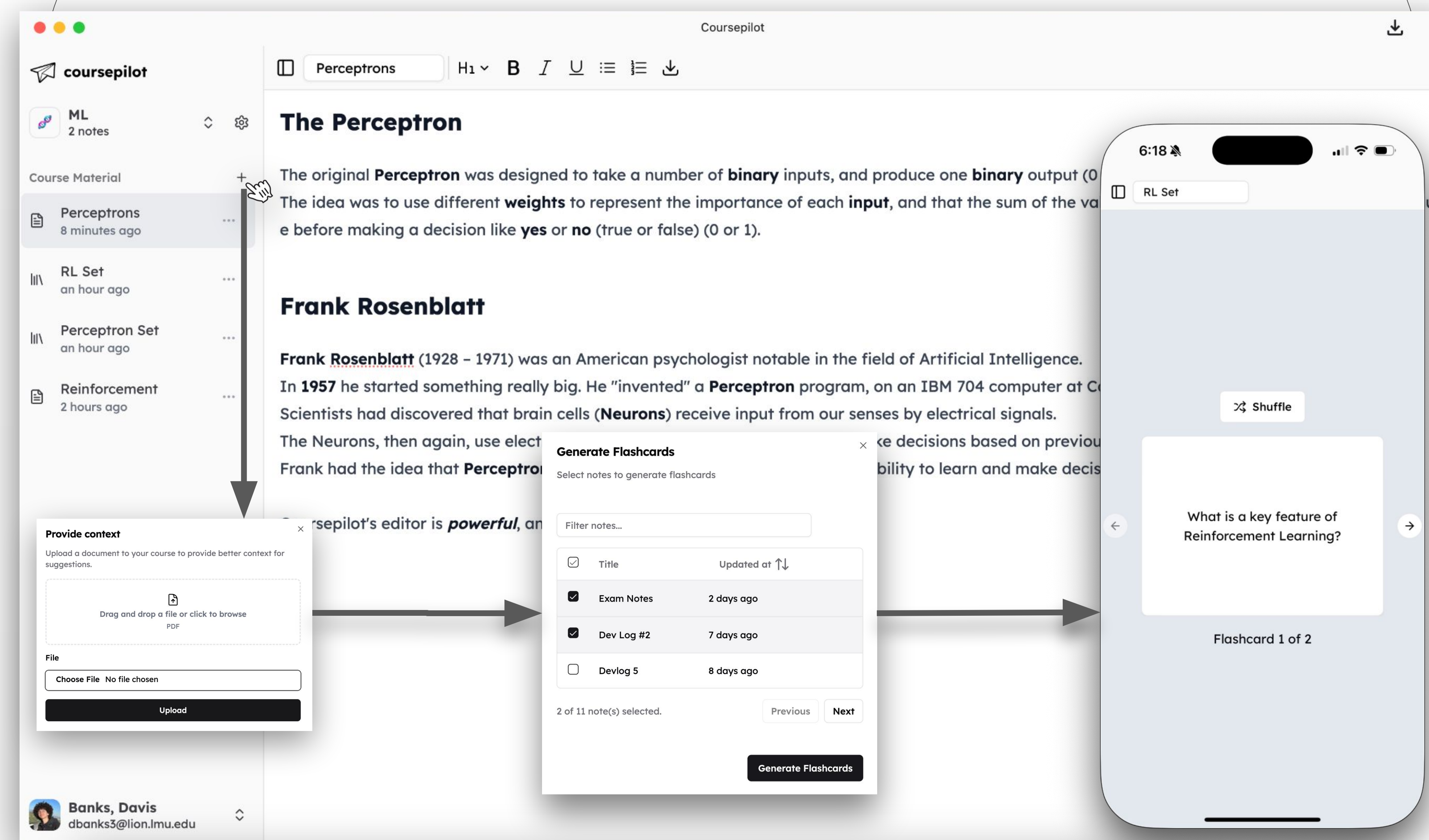


Tailwind



coursepilot

User Interface



(Preview for MacOS & iOS, PWA)

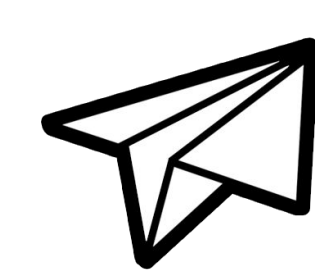
Editor

- Allows users to take notes using markdown or menu bar buttons for formatting
- Once you stop typing, you are given an autocomplete suggestion (similar to Copilot)
- Notes are automatically saved after you're done typing

AI

- Using note context alongside previously uploaded PDFs, we're able to suggest sentence completion using a large language model
- Flashcard sets with quiz questions are generated on the content of selected notes

Purpose



coursepilot is a web app that leverages AI to help accelerate, not replace, the learning process. We are hoping to to:

- help students take notes faster, with note autocomplete
- generate flashcards and quizzes based on notes/document uploads



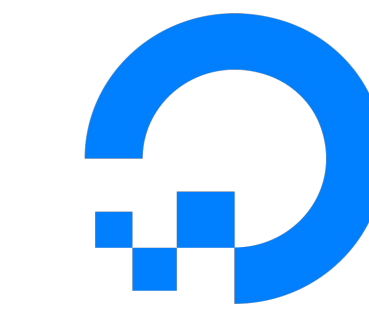
Sign in with LMU



Backend



heroku



DigitalOcean



Hugging Face



Flask

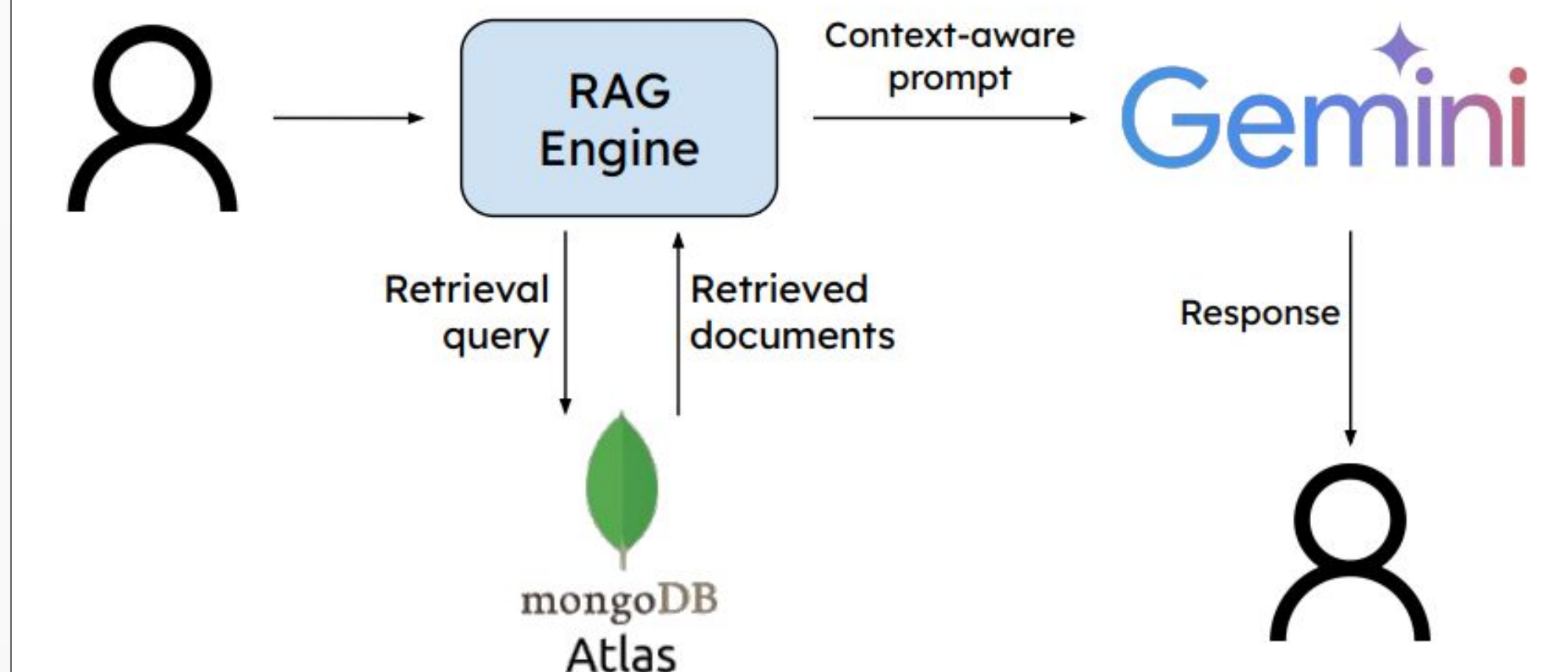


mongoDB Atlas



NGINX

RAG



- Retrieval Augmented Generation (RAG) is an AI technique that enhances LLMs by integrating external sources of information
- We use RAG to help generate accurate autocomplete, relevant flashcards, and comprehensive quizzes by extracting the key concepts from your notes



Davis Banks



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