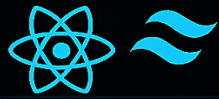


CISO Assistant Bot

System Architecture



Frontend (React + Tailwind)

- Login / Signup
- Dashboard
- Chatbot Ui
- Conversation History
- HTTPS Requests

HTTPS

WebSocket
streaming



express

Backend

(Node js + Express + Agent)

- JWT Authentication
- WebSocket Server
- Agent / LLM Orchestration
- Embedding Service (creates & stores vector embeddings)
- Saves to MongoDB
- Searches Qdrant/Pinecone (vector database for retrieval-augmented search)
- Calls OpenAI GPT-4 Mini

Store /
Retrieve

Vector
Search

Prompt
Context



mongoDB

- Users
- Conversations
- History
- Employee Data



Qdrant
& Pinecone

- Vector embeddings
- Semantic Search



OpenAI
GPT-4 Mini

- Receives prompt
- Streams answer