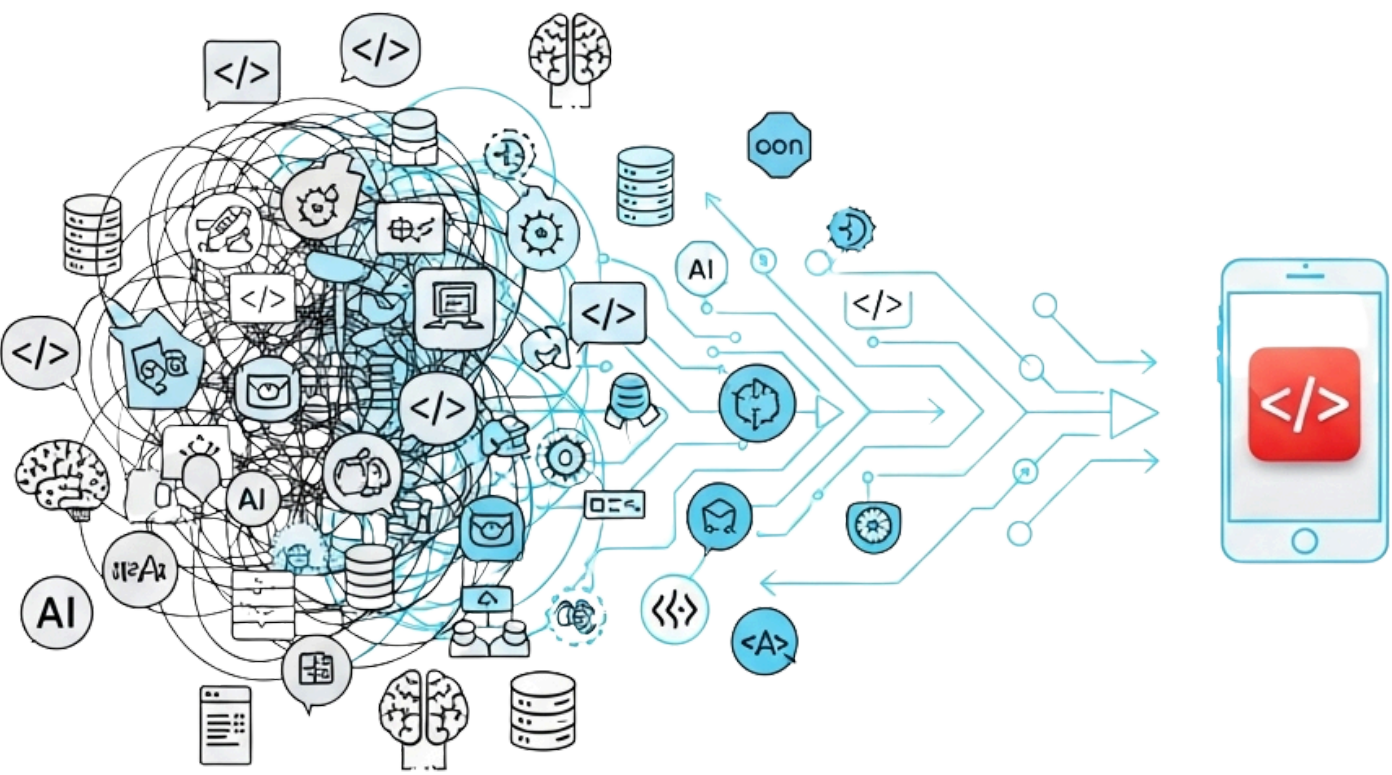


An Architectural Analysis of a Cloud-based AI-Infused Full-Stack Mobile App Powered by RAG

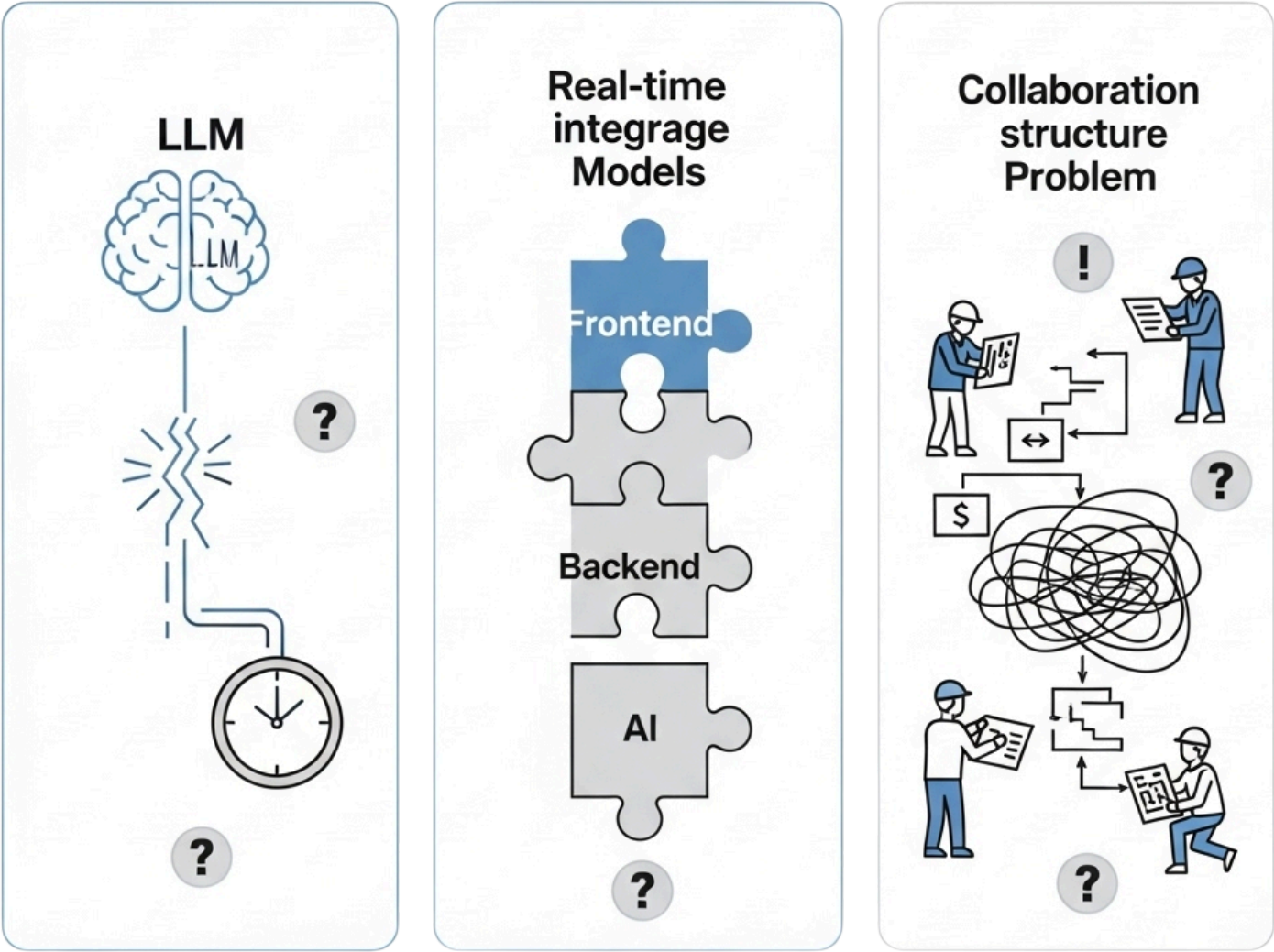
Nate Seon & Sam Chung, Ph.D.
School of Technology and Computing

CityUniversity
of Seattle

MOTIVATION



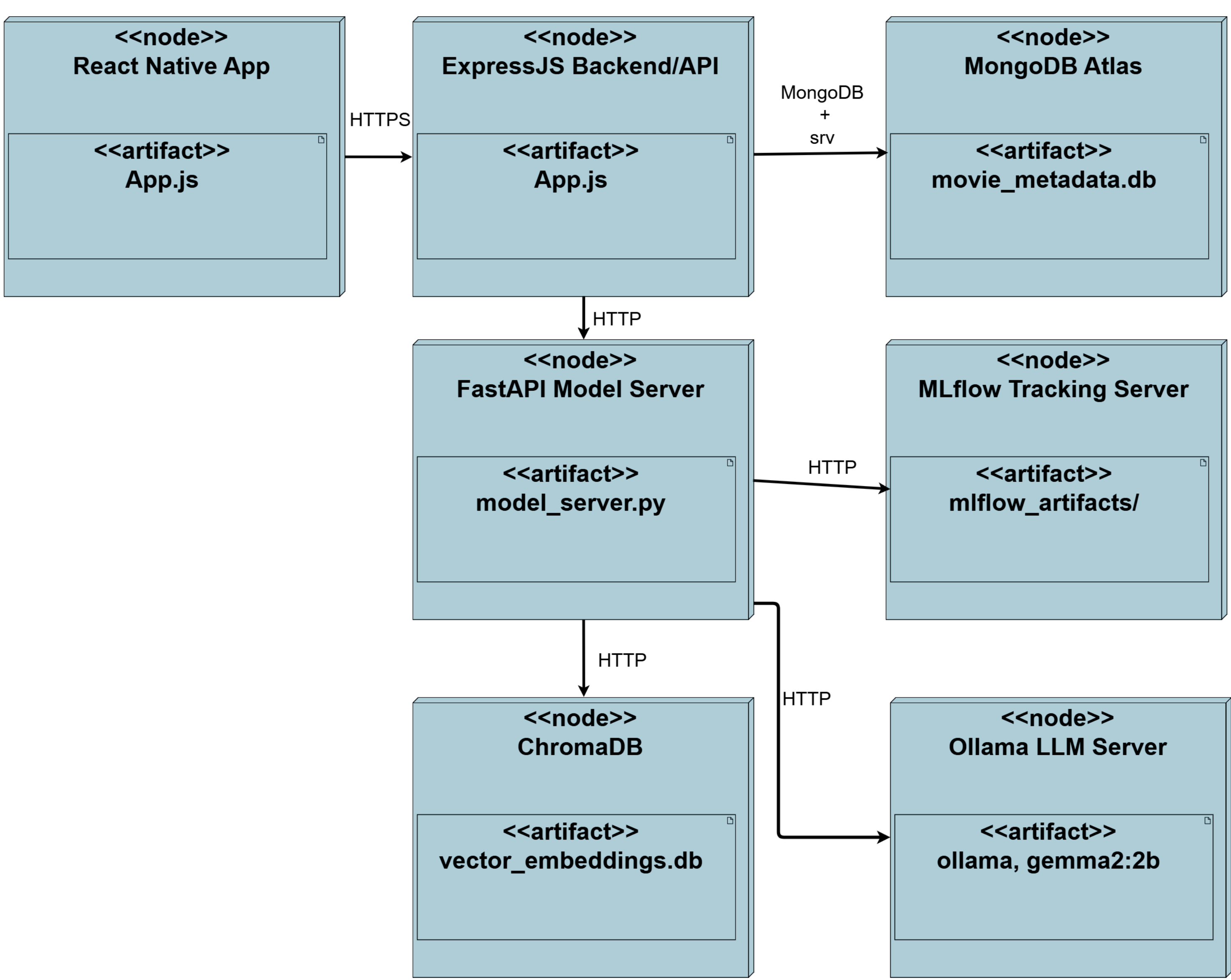
PROBLEM STATEMENT



RELATED WORK

Smith (2025) emphasizes strengthening computing capabilities, but a practical, integrated blueprint has been largely absent.

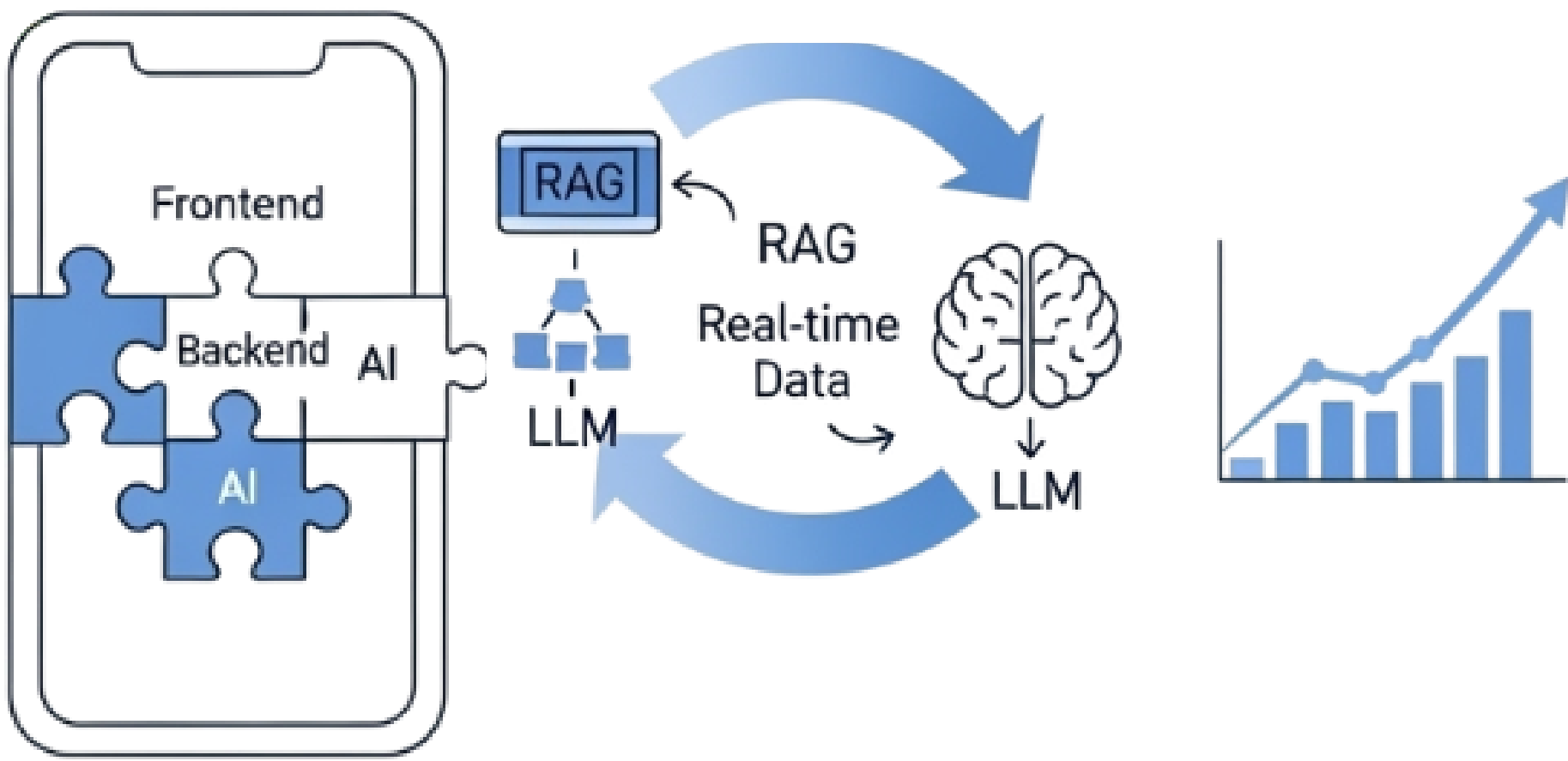
APPROACH



RESULT

Component	Verified Output
Ollama LLM Server	Gemma2 running locally
ChromaDB	Embeddings indexed & searchable
MongoDB Atlas	Metadata stored & retrieved
Express	API/chat functioning

CONCLUSION



REFERENCE

- Smith, B. (2025, May 8). Winning the AI race: Strengthening U.S. capabilities in computing and innovation. Microsoft. Retrieved from <https://blogs.microsoft.com/on-the-issues/2025/05/08/winning-the-ai-race/>