



4 Courses

**Develop Generative AI Applications: Get Started**  
**Build RAG Applications: Get Started**  
**Vector Databases for RAG: An Introduction**  
**Advanced RAG with Vector Databases and Retrievers**

Nov 21, 2025

## Tze Xuan Ryann Tay

has successfully completed the online, non-credit Specialization

# RAG for Generative AI Applications

The certificate holder is skilled in building GenAI-powered applications using Retrieval-Augmented Generation (RAG) techniques. They understand the core principles of RAG and can combine LLMs with advanced retrieval methods to produce context-aware outputs. Specifically, they are proficient in working with LangChain, LlamaIndex, FAISS, and ChromaDB to implement vector-based search, integrate retrievers, and build full-stack applications. The certificate holder can design and deploy intelligent GenAI systems that retrieve relevant information, summarize data, and generate responses in real time using structured pipelines. By completing the hands-on labs and graded assessments, the certificate holder has demonstrated practical expertise in using RAG to develop scalable, i

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.



A handwritten signature of Hailey Quach.

Hailey Quach  
Data Scientist  
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Rav Ahuja  
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A handwritten signature of Wojciech 'Victor' Fulmyk.

Wojciech 'Victor' Fulmyk  
PhD Candidate  
Data Scientist and AI Engineer  
IBM Skills Network

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