

# Kirti Nath Jha

## Technical Lead – Generative AI & Applied AI Solutions

Innovative Technical Lead with **13+ years at IBM** driving enterprise-scale transformation across **Generative AI, Multi-Agent Systems, and RAG architectures**. Expert in building AI-augmented full stack applications, architecting agentic workflows, and leading high-performing teams delivering AI-native products. Proven ability to design and deploy scalable, cloud-native systems integrating AI orchestration frameworks, microservices, and observability pipelines.

## TECHNICAL SKILLS

### Generative AI & Applied AI

LLMs (Llama, Mistral, Granite, OpenAI, Claude), RAG Architectures, Multi-Agent Workflows, LangGraph, LangChain, LlamaIndex, CrewAI, Context Engineering, Model Context Protocol (MCP), Vector Databases (Chroma, Faiss, Milvus)

### Enterprise Platforms & Integration

Salesforce (Apex, LWC, SOQL, AppExchange, Integrations), API Orchestration, Cloud AI Services (IBM WatsonX, AWS)

### Full Stack & Cloud Engineering

NodeJS, Angular, React, Next.js, Electron, TypeScript, Python, MongoDB, Cloud Object Storage, IBM Cloud, AWS

### Infrastructure

Docker, CI/CD, Observability, Cloud Cost Optimization

## PROFESSIONAL EXPERIENCE

### Technical Lead - AI Solutions and Salesforce

IBM India Pvt Ltd

02/2018 - Present

Bangalore, India

#### Achievements/Tasks

- **Architected ISC-CodeConnect** – a multi-agent RAG-based code assistant (LangGraph, WatsonX.AI) achieving **90%+ code understanding accuracy** and **70%+ usability** in production.
- **Pioneered advanced chunking & contextual embeddings** for large-scale codebases; deployed using **vector databases (Chroma, Faiss, Milvus)** to improve retrieval precision.
- **Spearheaded Model Context Protocol (MCP) adoption**, building AI protocol hubs & servers powering **200+ AI tools** for orchestration, automation, and developer productivity.
- Advancing **multi-agent frameworks (CrewAI, LangGraph, IBM watsonx Orchestrate)** and autonomous assistants to drive **next-gen AI co-pilot solutions**.
- Automated **IBM Business Partner Vetting workflow**, cutting processing from **36 hrs → near real-time**, retiring a 23-year-old legacy application.
- Built & launched a **Salesforce AppExchange package** integrating IBM Cloud Object Storage, extending Salesforce platform capabilities.
- Designed **high-availability Salesforce architectures** (Apex, LWC, SOQL, REST APIs) ensuring **99.9% uptime** for critical systems.

### Technical Lead - Full Stack Development

IBM India Pvt Ltd

03/2016 - 01/2018

Bangalore, India

#### Achievements/Tasks

- Migrated **1000+ GB of enterprise data** from Lotus Notes to IBM Cloud (Cloudant, MongoDB) via Python automation.
- Modernized legacy applications into **MEAN stack web apps** hosted on IBM Cloud.
- Earned **account-level recognition** for leadership in modernization initiatives and delivery excellence.



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## EDUCATION

### Master of Engineering

Jadavpur University, Kolkata

08/2010 - 07/2012  
8.28

### Bachelor of Technology

Siliguri Institute of Technology,  
Siliguri

08/2004 - 07/2008  
8.52



## AREAS OF EXPERTISE

Generative AI Solutions Architecture

RAG & Multi-Agent Systems  
Engineering

Model Context Protocol

Full Stack & Cloud Modernization

AI-Driven Developer Productivity Tools

Scalable Application & System Design

Data Migration & Legacy Modernization

Mentorship & Cross-Functional  
Collaboration



## CERTIFICATES

IBM Certified Expert IT Specialist

OpenGroup Certified Master Technical  
Specialist

Salesforce Certified Platform App  
Builder, Platform Developer I, CRM  
Analytics and Einstein Discovery  
Consultant

IBM Certified Developer Profession –  
Level 3 Expert

## PROFESSIONAL EXPERIENCE

### Full Stack Developer

IBM India Pvt Ltd

08/2012 - 02/2016

Bangalore, India

#### Achievements/Tasks

- Built **cross-platform web apps** (JavaScript, Angular, NodeJS, Typescript).
- Improved **app load time by 200%** via performance optimization.
- Designed **RESTful APIs, microservices, and AG-Grid UI components**.

## KEY PROJECTS AND INITIATIVES

### ISC-CodeConnect (09/2023 - Present)

- Architected a **multi-agent RAG system** for Salesforce development using **LangGraph & WatsonX.AI**.
- Improved AI-assisted coding by generating **context-aware Apex, LWC, and test classes** with **90%+ accuracy** and **70% usability**.
- Demonstrated how **LLMs and contextual embeddings** can enhance enterprise developer productivity.

### VectorForge (09/2023 - Present)

- Designed an **embedding pipeline framework** enabling high-quality vectorization of **code, documents, and unstructured data**.
- Integrated with **Chroma, Faiss, and Milvus** to support large-scale RAG applications.
- Accelerated enterprise adoption of **retrieval-augmented systems** by simplifying vector DB operations.

### Fusion MCP Hub (09/2025 - Present)

- Architected and implemented the Fusion MCP Hub, enabling **dynamic composition of Model Context Protocol Servers** for scalable, production-grade AI agent workflows across enterprise platforms.
- Developed an **automated code generation engine** that builds custom MCP server bridges, integrates multi-domain tools, and minimizes prompt context and resource overhead by leveraging lazy, on-demand backend connections.
- Achieved a **95% reduction in prompt context and query costs** for AI agents via selective tool exposure and dynamic method composition.

### LangGraph MCP Studio (02/2025 - Present)

- Built an **enterprise platform for MCP server development and deployment**.
- Features include **model selection, Postman collection import, visual code editing, and universal config export**.
- Simplified adoption of **MCP standards** across enterprise AI workflows.

### DataFox (09/2025 - Present)

- Created a **modern desktop FTP client** with **Electron, React, and Tailwind CSS** as a contemporary alternative to Cyberduck.
- Integrated **AWS S3 support** with smart bookmarks for efficient file management.
- Added **AI-powered search** across **JSON & Parquet content**, enabling semantic queries and advanced data handling.

### Salesforce MCP Ecosystem (09/2025 - Present)

- Developed **Salesforce MCP Server & IBM Carbon MCP extensions**, connecting Salesforce with **238+ AI tools**.
- Accelerated **Lightning Web Component (LWC) development** through AI-powered code retrieval and GitHub API integration.
- Showcased enterprise-scale **AI + Salesforce integration** for rapid innovation.



## HONORS & AWARDS

Blue Core Mentor  
IBM

Outstanding Innovation Award  
IBM

Knowledge Sharing Super Champion  
IBM

Managers Choice and Deep Skills Adder  
IBM



## INTELLECTUAL PROPERTY

IP  
**Hierarchical Tagging-Based Contextual Code Chunking and Relationship-Aware Retrieval for RAG-Based Development Assistants**  
25th September, 2025  
IP.com

A system for enhancing retrieval precision in retrieval-augmented generation (RAG) systems used for AI-assisted software development.