

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.



kirtinathjha@yahoo.com



+91-81058-93458



Bangalore, India



linkedin.com/in/kirtinathjha



github.com/KirtiJha



TECHNICAL SKILLS

Generative AI & Applied AI

LLMs (Llama, Mistral, Granite, OpenAI, Claude), RAG Architectures, Multi-Agent Workflows, LangGraph, LangChain, LlamalIndex, 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.



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

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**.

Bangalore, India



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.