

KETAN GOYAL

AI Engineer | DevOps Specialist | Agentic Systems
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PROFESSIONAL SUMMARY

AI-native DevOps Specialist with 3+ years at CIBC building production-grade agentic AI systems, ETL pipelines, and self-learning automation frameworks. Designed and deployed a fully autonomous Jira-to-PR agent using LLMs, vector databases (ChromaDB), and integrated MCP servers — compressing 2 full weeks of development and testing into under 1 hour. Deep expertise in Medallion and Delta Lake architecture, Databricks optimization, and AI agent memory systems. Combines applied AI engineering with a strong foundation in business analysis, stakeholder management, and Agile delivery.

CORE COMPETENCIES

AI & Agents	LLMs, RAG, Prompt Engineering, Agentic Pipelines, MCP Servers, ChromaDB (Vector DB), Self-Learning Systems
Data & MLOps	ETL Pipeline Design, Medallion Architecture, Delta Lake, Databricks, Spark DAG Optimization, Liquid Clustering
DevOps & Cloud	Azure DevOps, Jenkins, GitHub, CI/CD, SIT / UAT / Production Deployments, Infrastructure Automation
Languages & Tools	Python, SQL, Playwright, Microsoft Copilot, Jira, Confluence, Power BI, Balsamiq, Adobe XD
Methodologies	Agile / Scrum, Spec-Driven Development, TDD, Sequential Thinking Architecture, Requirements Engineering

PROFESSIONAL EXPERIENCE

DevOps Specialist (Promoted from Junior DevOps) | CIBC

Toronto, Ontario, Canada

Mar 2022 – Present

- Built fully autonomous Jira-to-PR agentic pipeline — agent fetches tickets, writes code, generates tests, creates PRs, self-reviews, fixes errors, and transitions Jira status through dev → QA lifecycle without human intervention, reducing 2 full weeks of development and testing to under 1 hour
- Engineered self-learning PR review skill using vector database (ChromaDB) that ingests feedback from every review, performs semantic retrieval on past decisions, and continuously improves code quality standards across the entire 9-person engineering team
- Integrated Jira, Confluence, and sequential thinking MCP servers into a unified agentic workflow for spec-driven development; also built a custom file-operations MCP server as a hands-on learning project to deepen understanding of the MCP protocol

- Implemented persistent memory architecture for AI agents using ChromaDB vector database with session-file context fallback — enabling agents to resume long-running tasks and store learnings, mistakes, and strategy updates for semantic reuse on future tickets
- Led full migration of legacy ETL codebase to Medallion Architecture and subsequently to Delta Lake in Databricks, achieving 97% improvement in cluster processing efficiency
- Optimized Spark query performance via DAG analysis, liquid clustering, shuffle tuning, and driver-to-worker compute redistribution — significantly reducing pipeline latency and I/O bottlenecks
- Managed end-to-end deployments across SIT, UAT, and Production environments; architected and optimized data pipelines using Jenkins, Azure DevOps, and GitHub
- Built automated reporting dashboards using Playwright in headed state for real-time pipeline visibility
- Promoted from Junior DevOps to Specialist within 3 years; awarded 4 merit-based salary increases for exceptional impact and innovation

Business Analyst | Infowiz Ltd

Aug 2016 – Sep 2017

USA / Canada

- Independently delivered 8 end-to-end software projects across gaming, mapping, commerce, and travel domains
- Gathered and translated client requirements into functional, technical, and business requirement documents; authored use cases, data flow diagrams, and system design specifications
- Built wireframes and mockups using Balsamiq and Adobe XD aligned with UI/UX best practices; facilitated client sign-offs at each project milestone
- Applied Agile methodology to divide projects into deliverables with defined timelines, contingency plans, and stakeholder communication

Field Technician | Eastlink

Aug 2020 – Sep 2021

Timmins, Ontario, Canada

- Installed and troubleshoot telecommunications infrastructure across client locations in Northern Ontario
- Coordinated daily scheduling with dispatch; managed client expectations and service delivery timelines

EDUCATION

IT Business Analyst Diploma

2018 – 2019

Conestoga College | Kitchener, ON | GPA: 3.5/4.0

Bachelor of Engineering — Computer Science

2012 – 2016

Chandigarh University | India

CERTIFICATIONS

- Databricks Certified Data Engineer Associate — Databricks (Issued Sep 2025 | Expires Sep 2027)
- Databricks Academy Accreditation — Generative AI Fundamentals — Databricks (Issued Apr 2026 | Does not expire)
- Microsoft Azure Data Fundamentals (DP-900) — Microsoft
- Project Management Simplified — LinkedIn Learning (2018)
- Project Management Foundation — LinkedIn Learning (2018)