

PRASHANT CHOUDHARY

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EXPERIENCE

Software Engineer – Full Time

IBM Watsonx.data

07/2024 – Present
Kochi, India

- Led the migration of a legacy Docker-based CLI to a modern **Plugin-Driven CLI Platform**, integrating new APIs across multiple internal services while preserving backward compatibility. **Reduced Average Setup Time by ~50%** and collaborated with **10+ Internal Teams** across Watsonx
- Took Ownership for end-to-end development of CLI platform including **Setup, Documentation, Testing, Troubleshooting and Enhancements** while delivering various **KTs and Technical Presentations**
- Added automated execution of table maintenance and Spark job commands using **PySpark** and **Golang**, collapsing a **6-step** manual workflow into a **Single Command, Reducing Execution Time by ~70%**
- Designed an automated **Performance Testing** framework for the access-control layer using **Python, Milvus, Iceberg, Presto**, enabling unattended **10–12 hour Benchmark Runs** eliminating manual query execution
- Improved **Logging and Diagnostics** for the central metadata service, **Reducing Log Noise by ~25%**
- Delivered multiple PoCs like **Text-to-Milvus Query** using **RAG Workflows, PostgreSQL Arrow Flight Extension** setup and providing **S3 Authentication Testing** support for internal services

Software Engineer – Intern

IBM Watsonx.data

01/2024 – 07/2024
Kochi, India

- Took ownership for resolving **Translation related issues** in Watsonx.data UI spanning across **7+ languages** eventually improving the cross-language consistency
- Led the **UI Enhancements** to add support for **Google Cloud Storage** in Watsonx.data with cross-team collaboration efforts. Shipped **15+ UI Features** and various bug fixes across the product contributing to monthly releases using **ReactJS, Javascript, MobX, and Internal Watsonx.data Tooling**

PROJECTS

CodeFlow: A **Python** tool that generates interactive call-graph visualizations to identify entry points in a codebase and trace function flows. Designed with modular **AST Parsing, DFS Graph Analysis, Tree-Sitter, GitHub API, Multithreading** and an **Automated Setup Script**. Reduces manual code navigation effort by **~30%** [Link](#)

Lil-DB: Developed a basic in-memory database in **C** with **Page-Based Storage, B-tree Indexing, and Custom Row Serialization**. Used a minimal **Parser, Executor and REPL** to include basic **SQL Commands**. Implemented structured in-memory layout for efficient lookups with a **Max Table Size of 400 KB**. [Link](#)

SKILLS

Languages	C++, Python, Go, SQL, JavaScript, Java
Data & Storage	Iceberg, PostgreSQL, Redis, SQLite, DuckDB
Compute & Infra	Kafka, Milvus, Presto, OpenSearch
OS, Tools & Platforms	Linux/MacOS/Windows, Git, CI/CD, Docker, Kubernetes, Jenkins, IBM Cloud
Frameworks & Libraries	Vert.x, React, Tree-Sitter, Tailwind, MobX
AI & Scripting	LangChain, LLM/GenAI scripting, Shell/Bash scripting
Others	gRPC, Arrow Flight, Socket.io, API Integrations

EDUCATION

Bachelor of Technology - Computer Science and Engineering,

Indian Institute of Information Technology, Kottayam, **CGPA - 7.94**

Courses - DBMS, Computer Networks, DSA, Operating Systems

2020 - 2024