

### Education

### University of Colorado Boulder

2024 - 2026

Masters of Science in Computer Science - cGPA: 4

Relevant Courses: Data Center Scale Computing, Data Mining, Database Systems, Big Data Architecture

## Lahore University of Management Sciences

2020 - 2024

Bachelors of Science in Computer Science - Dean's Honor List

### Technical Skills

- Programming Languages: Python, JavaScript, SQL, Cipher, C++, Latex
- Databases: PostGreSQL, Neo4J, Snowflake, MySQL, Google Cloud Storage
- Development: React.js, Flask, Django, RESTful APIs, Microservices Architecture, JWT-based authentication
- DevOPS: Infrastructure Automation, Deployment on Cloud VMs
- Testing: unittest, Pytest, Locust

## Work Experience

Meta May 2025 – August 2025

Data Engineer Intern - Menlo Park, California, United States

- Built and deployed scalable batch pipelines using dbt, Apache Spark, Apache Airflow, and Apache Hive to process over 2B records daily, supporting high-throughput ML feature engineering workflows.
- Collaborated with research scientists to productionize LLM features, improving model recall by 9% and reducing query latency by 35% using optimized **Presto** and **Spark** transformations.
- Developed interactive dashboards using **Tableau** and advanced **SQL** (**Presto**, **Hive**, **SparkSQL**) to expose model outputs and metrics, decreasing manual query time by **70**% for **50+ internal users**.
- Built and launched an **AI-powered onboarding assistant** for an internal platform, reducing onboarding time by **60**% across **7+ teams** and eliminating over **40** recurring meetings through automated, self-serve documentation guidance.

#### Volga Partners

June 2023 - August 2023

Software Engineer - Kirkland, Washington, United States (Remote)

- Engineered an AI SaaS product, **Amethyst**, utilizing **LangChain** and **OpenAI LLMs**, efficiently processing up to 10,000+ user queries daily.
- Collaborated with a cross-functional team of developers and product managers, following **Agile methodologies** (Scrum) to deliver modular data import and Q&A features, ensuring seamless data integration.
- Solved performance bottlenecks by implementing caching mechanisms and optimizing database queries, leading to a 25% reduction in UI load times on a scalable Flask backend with a responsive ReactJS frontend.
- Automated performance monitoring and error logging, improving system reliability and reducing downtime by 30%.

## **Projects**

## **DataBuff** | Big Data Architecture

Jan 2025 – May 2025

- Built a full-stack AI web app with React.js, Flask, and Mistral 14B for automated dataset transformations and Pandas code generation for data cleaning, visualization, and ML model training.
- Implemented contextual chat memory via Firestore and JWT auth, enabling personalized AI interactions.
- Leveraged Google Cloud Storage for dataset and visualization management; deployed on GKE with optimized load balancing and security.
- Achieved 100% pytest pass rate with extensive mocking, attaining 85%+ backend code coverage.

### Raasta Trip Booking Website | Independent Project

Jan 2023 – Jul 2023

- Developed a dynamic web app for trip booking with **Django** and **PostgreSQL**, featuring efficient user interactions.
- Implemented search/filter functionality enabling users to book based on preferences such as location and price.
- Designed optimized database schema with 10 tables, handling 10,000+ records effectively.
- Built scalable **RESTful APIs** for efficient frontend-backend communication.

### Relevant Community Experience

# AI Community of Pakistan

Jun 2023 – Aug 2024

President Academics

- Led **30+** volunteers across multiple academic teams.
- Organized **5 seminars** with prominent AI industry leaders.
- Conducted **3 coding competitions** on HackerRank attracting **250+** nationwide participants.