

Zaid Iqbal

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SKILLS

Programming Languages | Python, Javascript, SQL
Frameworks & Libraries | FastAPI, Flask, Express.js, LangChain, Hugging Face Transformers, PyTorch
Databases | PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps | Docker, Kubernetes, Terraform, Git, GitHub Actions, Linux, AWS (EC2, S3, IAM)
Core Computer Science | Data Structures & Algorithms, OOPs, Operating Systems, DBMS, Computer Networks
Developer Tools | GitHub, VS Code, Postman, Kaggle

PROJECTS

Cloud-Native DevOps Microservice | [Github](#) December 2025

Tech Stack: Flask, PostgreSQL, Docker, Kubernetes, GitHub Actions, Terraform, AWS (EC2, IAM), Linux

- Developed a Flask-based microservice with PostgreSQL, **implementing 8+ RESTful API endpoints** for customer account management and CRUD operations.
- Automated CI/CD using GitHub Actions with **5+ workflow stages** and Docker, reducing deployment time by nearly **80%** through a fully automated pipeline.
- Provisioned AWS infrastructure using Terraform to deploy EC2 instances, IAM roles, and networking resources in **under 5 minutes using Infrastructure as Code (IaC)**.
- Containerized and orchestrated the application using Docker and Kubernetes, **managing 3 Kubernetes deployments** and services for scalable and consistent application delivery.

Data-Query-RAG-Agent | Retrieval Augmented Generation (RAG) Pipeline | [Github](#) June 2025

Technologies used: Python, FastAPI, LangChain, GPT, SQL, REST API, Docker

- Engineered a Retrieval-Augmented Generation (RAG) platform integrating PostgreSQL and document-based knowledge sources, enabling **contextual querying across 10,000+ records** with semantic search.
- Developed **12+ RESTful API endpoints** using FastAPI for document ingestion, query processing, embedding generation, and AI-powered response retrieval, supporting modular backend architecture.
- Implemented **LangChain-based retrieval pipelines** with Hugging Face embeddings, improving response relevance through vector similarity search and optimized chunking strategies.
- Containerized the application using Docker and designed a modular architecture, reducing local environment setup time by nearly **70%** and ensuring reproducible deployments.

Scalable URL Shortening Service | [Github](#) December 2025

Tech Stack: React, TypeScript, Node.js, Express.js, MongoDB, JWT, REST APIs

- Developed a full-stack URL shortening platform using React, Node.js, Express.js, and MongoDB, enabling secure user authentication, custom short URLs, and **management of 1,000+ shortened links**.
- Designed and implemented **8+ RESTful API endpoints with JWT authentication** and bcrypt password hashing for user registration, login, URL creation, redirection, and personalized URL management.
- Built an analytics dashboard with click tracking and interactive statistics, while optimizing MongoDB queries and indexing to reduce **URL redirection latency by nearly 60%**.

CERTIFICATIONS

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|---|---------------|
| Oracle Data Platform 2025 Certified Foundations Associate Oracle University | May 2026 |
| IBM DevOps and Software Engineering Specialization IBM | December 2025 |
| Data Analysis with Tableau Coursera | November 2024 |
| Generative AI with Large Language Models Coursera | November 2023 |
| Mastering Data Structure and Algorithm using C & C++ Udemy | June 2023 |

ACHIEVEMENTS

- Research Paper Accepted for Publication: "Image-Based Breed Recognition for Cattle and Buffaloes of India (GauDrishti – Intelligent Cattle Breed Identification System)."
- Led a team of five in the Smart India Hackathon, collaborating to develop an AI-based solution under strict project deadlines.

EDUCATION

Lovely Professional University

Bachelor of Technology Computer Science and Engineering; CGPA: 7.52

Punjab, India

August 2022 – May 2026