

UMAIR AMEER HUSSAIN

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PROFESSIONAL OBJECTIVE

Motivated Computer Science student with hands-on experience in Flutter E commerce store connected with the firebase , Java application development, MongoDB-based backend systems, and cloud-native DevOps using Docker and Kubernetes. Passionate about building scalable, real-world software solutions and eager to apply technical skills in a collaborative, growth-driven environment.

TECHNICAL SKILLS

Languages: Java, Python,Flutter, SQL, Bash, HTML, CSS, JavaScript

Databases: MongoDB, Firebase, MySQL, PostgreSQL — Query Optimization, Aggregation Pipelines, Indexing

Frameworks & APIs: FastAPI, JDBC, sentence-transformers, scikit-learn, PyMongo

DevOps & Cloud: Docker, Kubernetes (k8s), CI/CD, GitHub Actions, Linux

Tools: Git, GitHub, VS Code, IntelliJ IDEA, Postman, Andriod studio

PROJECTS

Movie Streaming Platform Backend — Advanced Database Project | *Python, FastAPI, MongoDB* 2025

- Engineered a full-stack MongoDB backend for a movie streaming platform, designing 4 normalized collections (movies, users, watchHistory, reviews) with strategic indexing that accelerated query response for 1,000+ records.
- Implemented 4 advanced search modes — keyword, fuzzy, semantic (vector embeddings via sentence-transformers), and hybrid ranking (combining similarity score, rating, and popularity) — delivering highly relevant content retrieval.
- Developed 10+ RESTful API endpoints using FastAPI covering CRUD, watch history, user reviews, and analytics (e.g., Top 5 most-watched movies) using MongoDB aggregation pipelines.

Cloud-Native E-Commerce Platform — DevOps Project | *Python, Docker, Kubernetes, HTML/CSS/JS* 2025

- Containerized a full-stack e-commerce web application (Python/Flask backend, HTML/CSS/JS frontend) using Docker, authoring a Dockerfile and .dockerignore for a clean, production-ready image build.
- Orchestrated multi-service deployment on Kubernetes by configuring k8s manifests for pods, services, and deployments — enabling scalable, resilient hosting of the e-commerce platform.
- Structured the project with clean separation of static assets, HTML templates, and backend logic, applying cloud-native best practices for portability and environment consistency.

Flutter E-Commerce Store — Mobile Application Development | *Flutter, Firebase Authentication, Firestore* 2025

- Built a cross-platform e-commerce mobile app with responsive UI, Firebase Authentication for secure user management, and real-time Firestore operations for product listings and shopping cart.
- Designed reusable Flutter widgets and structured architecture following best practices to enhance scalability, maintainability, and code reusability.

EDUCATION

Bachelor of Science in Computer Science (BCS) 2023 – Present

COMSATS University Islamabad | **Relevant Coursework:** OOP • Data Structures & Algorithms • Database Systems • Mobile Application Development • Cloud Computing • Software Engineering • Computer Networks

ACTIVITIES & STRENGTHS

- Maintained 14 public GitHub repositories demonstrating consistent coding practice across Java OOP, database engineering, and cloud DevOps domains.
- Applied agile development workflow across university projects — planning, modular design, peer code review, and iterative delivery cycles.