

RABIA ZULFIQAR

Computer Science (STEM) Undergraduate | FAST National University | rabiazulfiqar.me

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EDUCATION

FAST National University | 2023-2027 (CGPA: 3.9/4.0)

Bachelor of Science in Computer Science

EXPERIENCE

Data Science & Data Engineering Intern | Dun & Bradstreet | 8 July – 18 August 2026

- Engineered production-ready automated ETL pipelines via Selenium web scraping to structure stock exchange data.
- Extracted structured entities from ~150K rows of unstructured Oman Stock News data using masking and LLM-based classification.
- Applied clustering and fuzzy string matching to resolve complex entity extraction from stock news data.

AI Engineering Intern | The Botss | 1 June 2026 – 30 June 2026

- Optimized token usage for AI-powered email agents, reducing unnecessary LLM consumption while maintaining response quality.
- Developed and integrated voice AI solutions using WebRTC for real-time communication.
- Built full-stack AI applications featuring chatbot session management, blog upload and retrieval, JWT-based authentication, PostgreSQL, and an admin dashboard.

Research Assistant - Computer Vision | FAST National University | Feb 2026 - Apr 2026

- Implemented and evaluated a research paper on lightweight AI architectures for efficient on-device image processing.
- Performed experimental analysis, benchmarked model performance, and documented findings to assess efficiency and optimization trade-offs.

PROJECTS

SparkSpace - Multimodal AI Study Platform | FastAPI, React, Next.js, PostgreSQL, Redis, Docker

- Architected and shipped full-stack SaaS platform with PostgreSQL & Redis caching, achieving 40% reduction in query response time
- Built RAG pipeline (LangChain + HuggingFace embeddings, 85% accuracy) for intelligent document querying; integrated Gemini API for AI-powered mindmap generation
- Deployed containerized app (Docker) with real-time data flow via WebSockets; used Next.js for server-side rendering

Interactive Data Analytics Dashboard | Python, Streamlit, Pandas, Plotly, SQL

- Developed a multi-page Streamlit EDA web app analyzing 5,000+ records, with a data cleaning pipeline handling outliers via IQR, Z-score, and Winsorization, plus dynamic filtering.
- Designed interactive visualizations and applied Spearman correlation analysis for automated insight generation.

SKILLS

Databases	PostgreSQL, MySQL, MongoDB, Redis, Database Design & Architecture, Supabase
Programming	Python, Javascript, C, C++, TypeScript
Backend & APIs	FastAPI, Flask, RESTful APIs, Docker, Node.js, Laravel
Frontend	React, Tailwind CSS, Next.js
AI & ML	RAG, LangChain, HuggingFace, Gemini API, AI Agents (Google ADK, CrewAI)
IT & Systems	Git/Github, Linux, System Design, OOP, Data Structures & Algorithms
Data Analytics	SQL, Excel, Pandas, Plotly, Scipy, Data Visualization, Statistical Analysis, ETL pipelines
Soft Skills	Team Leadership, Project Management, Communication, Problem-Solving, Documentation

CERTIFICATES

Machine Learning Specialization (3 courses)

Generative AI